

Built from the FAA's own documents, checked on [faa.gov](https://www.faa.gov) and [ecfr.gov](https://www.ecfr.gov) on 15 September 2026.
FAA-S-ACS-6C · FAA-H-8083-25C · FAA-H-8083-3C · FAA-H-8083-2A · FAA-H-8083-28B · FAA-H-8083-15B · FAA-H-8083-1B · AIM Change 3 · 14 CFR · 49 CFR part 830 · POH/AFM

Student

Instructor

How to use this plan

► study advice from RunupLab, not FAA text

- Work task by task. Each ACS task lists the ACS's own reference line and RunupLab's pointers for where to start reading.
- Read the chapters marked Core first and skim the ones marked Skim. Chapters marked Skip for ASEL are, in RunupLab's judgment, not needed for an airplane single-engine land private pilot.
- Tick a box when you can explain the item to your instructor without notes.
- FAA documents change. This plan names the edition it was built from; check [faa.gov](https://www.faa.gov) for a newer one before you rely on it.
- Text marked with the advice glyph is RunupLab study advice. Titles, headings, quotations and ACS elements are copied from the FAA documents named beside them.
- This edition lists tasks without their elements. Read the elements in the ACS itself.

Core

Read it, and be ready to be asked about it.

Skim

Read it for familiarity.

Skip for ASEL

In RunupLab's judgment, not needed for this certificate and class.

How you're tested	1
Your library	2
Reading plan	4
Regulations checklist	4
ACS task map	9
Instructor sign-off	11
Where this plan's facts come from	14
	15

1 · How you're tested

FAA-S-ACS-6C Appendix 1 · FAA-G-ACS-2

FAA GUIDANCE

► What the ACS says about the knowledge test and the practical test, quoted.

The knowledge test

"For an initial Private Pilot Certificate, applicants must pass the knowledge test listed in the table below as a prerequisite for the practical test."
FAA-S-ACS-6C, Appendix 1, p. 66

Test Code	Test Name	Number of Questions	Age	Allotted Time	Passing Score
PAR	Private Pilot Airplane	60	15	2.5	70

"In accordance with 14 CFR part 61, section 61.39, the applicant must pass the airman knowledge test before taking the practical test, if applicable to the certificate or rating sought."
FAA-S-ACS-6C, Appendix 1, p. 66

"Knowledge and risk management elements are primarily evaluated during the knowledge testing phase of the airman certification process."
FAA-S-ACS-6C, Appendix 1, p. 67

"The Airman Knowledge Test Report (AKTR) lists ACS codes that correlate to a specific Task element for a given Area of Operation for any incorrect responses on the knowledge test."
FAA-S-ACS-6C, Appendix 1, p. 66

The practical test

"There is no requirement for an evaluator to test every knowledge and risk management element in a Task; rather the evaluator has discretion to sample as needed to ensure the applicant's mastery of that Task. The required minimum elements to be tested from each applicable Task include:

- any elements in which the applicant was shown to be deficient on the knowledge test, as applicable;
- at least one knowledge element;
- at least one risk management element; and
- all skill elements unless otherwise noted."

FAA-S-ACS-6C, Appendix 1, p. 66

"Unless otherwise noted in the Task, the evaluator must test each item in the skills section by observing the applicant perform each one."
FAA-S-ACS-6C, Appendix 1, p. 67

"The applicant must pass the ground portion of the practical test before beginning the flight portion."
FAA-S-ACS-6C, Appendix 1, p. 67

What you can be asked about

"The References for each Task indicate the source material for Task elements. For example, in the Task element "Acceptable weather products and resources required for preflight planning, current and forecast weather for departure, en route, and arrival phases of flight such as:" (PA.I.C.K2), the applicant should be prepared for questions on any weather product presented in the references for that Task."
FAA-S-ACS-6C, Appendix 1, p. 67

ACS Companion Guide for Pilots (FAA-G-ACS-2)

ACS Companion Guide for Pilots (FAA-G-ACS-2, with Changes 1 & 2). Change 1 (September 19, 2024); Change 2 (December 26, 2024).

☐ Core

Section 1: Knowledge Test Eligibility, Description, and Registration

☐ Core

Section 2: Airman Knowledge Test Report

☐ Core

Section 3: ACS Risk Management

☐ Skip for ASEL

Section 4: Flight Instructor Applicant Considerations

► For flight instructor applicants.

☐ Skim

Section 5: References

☐ Skim

Section 6: Abbreviations and Acronyms

☐ Core

Section 7: Practical Test Checklist (Applicant)

☐ Skim

Section 8: Knowledge Test Reports and Archived ACS Codes

► These documents are free online. Your airplane's POH or AFM comes from its owner or manufacturer.

Cited by the ACS

Document	Edition checked	ASEL tasks citing it	Use it for
Private Pilot for Airplane Category Airman Certification Standards https://www.faa.gov/training_testing/testing/acs	FAA-S-ACS-6C · November 2023 · Effective May 31, 2024	—	► The standard you are tested against: tasks, knowledge, risk management and skill elements, and tolerances.
Pilot's Handbook of Aeronautical Knowledge https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/phak	FAA-H-8083-25C · 2023 · addendum October 2025	45 of 45	► The main knowledge text: aerodynamics, systems, instruments, weather, airports, airspace, navigation, aeromedical factors and decision-making.
Airplane Flying Handbook https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/airplane_handbook	FAA-H-8083-3C · 2021 · addendum October 2025	45 of 45	► How to fly the maneuvers and procedures in the ACS, from preflight through emergencies.
Risk Management Handbook https://www.faa.gov/regulations_policies/handbooks_manuals/risk-management-handbook-faa-h-8083-2a	FAA-H-8083-2A · 2022	45 of 45	► Identifying, assessing and mitigating risk; supports the risk management elements of each task.
Pilot's Operating Handbook / Airplane Flight Manual	► The one for the airplane you fly.	27 of 45	► Your airplane's limitations, procedures, performance, weight and balance, and systems.
Aeronautical Information Manual https://www.faa.gov/air_traffic/publications/atpubs/aim_html/	Change 3 · effective 7/9/2026	19 of 45	► Procedures: navigation aids, airport lighting and markings, airspace, ATC, emergencies, weather services, medical facts and charts.
Aviation Weather Handbook https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/aa-h-8083-28b-aviation-weather-handbook	FAA-H-8083-28B · 04/02/2026	2 of 45	► Weather theory, weather hazards, and the weather products you brief from.
Instrument Flying Handbook https://www.faa.gov/regulations_policies/handbooks_manuals/aviation	FAA-H-8083-15B · 2012 · errata 12/21/2012, 10/10/2014 · addenda 4/10/2015, 11/5/2019	6 of 45	► Attitude instrument flying for the Basic Instrument Maneuvers tasks.
Weight & Balance Handbook https://www.faa.gov/regulations_policies/handbooks_manuals/aviation	FAA-H-8083-1B · 2016 · addendum October 2025	1 of 45	► Weight and balance theory and computations.
Title 14 CFR — the regulations https://www.ecfr.gov/current/title-14	eCFR, structure as of 2026-09-11	9 of 45	► The regulations. Work through the Regulations checklist.
AC 61-67C — Stall and Spin Awareness Training with Change 1 & 2 https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/61-67C	Active · issued 2000-09-25	3 of 45	► Stall and spin awareness.
AC 68-1A — BasicMed https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/68-1A	Active · issued 2017-05-03	1 of 45	► BasicMed.
AC 91-73B — Parts 91 and 135 Single Pilot, Flight School Procedures During Taxi Operations https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/91-73B	Active · issued 2012-07-30	1 of 45	► Single-pilot taxi procedures.
AC 91-78A — Use of Electronic Flight Bags https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/91-78A	Active · issued 2024-02-23	1 of 45	► Using an electronic flight bag.
AC 91-92 — Pilot's Guide to a Preflight Briefing https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/91-92	Active · issued 2021-03-15	1 of 45	► Getting and using a preflight briefing.
AC 120-71B — Standard Operating Procedures and Pilot Monitoring Duties for Flight Deck Crewmembers https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/120-71B	Active · issued 2017-01-10	1 of 45	► Standard operating procedures and pilot monitoring; the ACS cites it for flight deck management.
VFR navigation charts https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/vfr/	VFR Raster Charts	5 of 45	► Sectional and terminal area charts for where you fly.
Chart Supplements https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/dafd/	Digital - Chart Supplement (d-CS)	2 of 45	► Airport and facility information for your airports.
NOTAMS	AIM 5-1-3 · Notice to Airmen (NOTAM) System	1 of 45	► Notices that can affect your flight; the AIM paragraph listed here explains the system.
FAA-H-8083-23 (as the ACS cites it)	No edition checked	6 of 45	► Seaplane operations. The ACS lists it on tasks shared by land and sea classes; a land airplane applicant can skip it.

Also useful — not on an ACS reference line

Document	Edition checked	ASEL tasks citing it	Use it for
ACS Companion Guide for Pilots https://www.faa.gov/training_testing/testing/acs/acs_companion_guide_pilots.pdf	FAA-G-ACS-2, with Changes 1 & 2	—	► Knowledge test registration and procedures, what your test report codes mean, and the practical test applicant checklist.
14 CFR part 1 — Definitions and Abbreviations https://www.ecfr.gov/current/title-14/part-1	eCFR, structure as of 2026-09-11	—	► Definitions and abbreviations used across the regulations.

14 CFR part 67 — Medical Standards and Certification https://www.ecfr.gov/current/title-14/part-67	eCFR, structure as of 2026-09-11	—	► Medical certificate standards.
49 CFR part 830 — Notification and Reporting of Aircraft Accidents or Incidents and Overdue Aircraft, and Preservation of Aircraft Wreckage, Mail, Cargo, and Records https://www.ecfr.gov/current/title-49/part-830	eCFR, structure as of 2026-09-11	—	► NTSB accident and incident notification, an ACS knowledge element in Task III.A.
AC 61-65K — Certification: Pilots and Flight and Ground Instructors https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/61-65K	Active · issued 2025-11-14	—	► Sample endorsements, including the ones a student pilot receives.
AC 90-66C — Non-Towered Airport Flight Operations https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/90-66C	Active · issued 2023-06-06	—	► Operations at airports without an operating control tower.
AC 91-67A — Minimum Equipment Requirements for General Aviation Operations Under 14 CFR Part 91, § 91.213 https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentNumber/91-67A	Active · issued 2023-10-16	—	► Flying with inoperative equipment.
Aeronautical Chart Users' Guide https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/aero_guide/	faa.gov lists Effective Date 9 July 2026; the page's introduction still reads 22 January 2026	—	► The chart legend: what the symbols on FAA charts mean.

Cancelled — do not study from these

Document	Edition checked	ASEL tasks citing it	Use it for
AC 00-6B — Aviation Weather	issued 2016-08-23 · cancelled 2022-12-22	—	► Replaced by the Aviation Weather Handbook.
AC 00-45H — Aviation Weather Services - Change 2	issued 2016-11-14 · cancelled 2022-12-22	—	► Replaced by the Aviation Weather Handbook.

"ASEL tasks citing it" is counted from each task's References line in FAA-S-ACS-6C, across the tasks that apply to an airplane single-engine land applicant.

► Chapter by chapter, with the main headings and the ACS tasks each chapter supports.

Pilot's Handbook of Aeronautical Knowledge

FAA-H-8083-25C (2023) with its October 2025 addendum · page numbers from its table of contents

“Until the revision of FAA-H-8083-25 is published, this addendum is considered part of the current edition of the handbook and should be used as a reference.”
PHAK addendum (MOSAIC rule published July 18, 2025, effective October 22, 2025)

- ☐ **Core PHAK ch 1 Introduction To Flying** p. 1-1
 - Supports I.A
 - History of Flight · History of the Federal Aviation Administration (FAA) · The Role of the FAA · Aircraft Classifications and Ultralight Vehicles · Pilot Certifications · Selecting a Flight School · The Student Pilot · Becoming a Pilot · Knowledge and Skill Tests
- ☐ **Core PHAK ch 2 Aeronautical Decision-Making** p. 2-1
 - Supports I.H II.A
 - History of ADM · Risk Management · Crew Resource Management (CRM) and Single-Pilot Resource Management · Hazard and Risk · Human Factors · Human Behavior · The Decision-Making Process · Decision-Making in a Dynamic Environment · Situational Awareness · Automation
- ☐ **Skim PHAK ch 3 Aircraft Construction** p. 3-1
 - Supports I.B
 - Aircraft Design, Certification, and Airworthiness · Lift and Basic Aerodynamics · Major Components · Subcomponents · Types of Aircraft Construction · Instrumentation: Moving into the Future · Global Positioning System (GPS)
- ☐ **Core PHAK ch 4 Principles of Flight** p. 4-1
 - Supports I.F
 - Structure of the Atmosphere · Theories in the Production of Lift · Airfoil Design · A Third Dimension
- ☐ **Core PHAK ch 5 Aerodynamics of Flight** p. 5-1
 - Supports I.F IV.C V.A V.B VII.A VII.B VII.C VII.D
 - Forces Acting on the Aircraft · Wingtip Vortices · Ground Effect · Axes of an Aircraft · Moment and Moment Arm · Aircraft Design Characteristics · Effect of Wing Planform · Aerodynamic Forces in Flight Maneuvers · Stalls · Angle of Attack Indicators · Basic Propeller Principles · Load Factors · Weight and Balance · High Speed Flight
- ☐ **Core PHAK ch 6 Flight Controls** p. 6-1
 - Supports I.G
 - Flight Control Systems · Autopilot
- ☐ **Core PHAK ch 7 Aircraft Systems** p. 7-1
 - Supports I.G II.C II.F IX.C
 - Powerplant · Superchargers and Turbosuperchargers · Ignition System · Oil Systems · Engine Cooling Systems · Exhaust Systems · Starting System · Combustion · Full Authority Digital Engine Control (FADEC) · Turbine Engines · Airframe Systems · Fuel Systems · Refueling Procedures · Heating System · Electrical System · Hydraulic Systems · Pressurized Aircraft · Oxygen Systems · Anti-Ice and Deice Systems
- ☐ **Core PHAK ch 8 Flight Instruments** p. 8-1
 - Supports I.G VI.A VIII.A VIII.B VIII.C VIII.D IX.C
 - Pitot-Static Flight Instruments · Electronic Flight Display (EFD) · Gyroscopic Flight Instruments · Angle of Attack Indicators · Compass Systems · Outside Air Temperature (OAT) Gauge
- ☐ **Core PHAK ch 9 Flight Manuals and Other Documents** p. 9-1
 - Supports I.B
 - Aircraft Documents · Aircraft Inspections · Minimum Equipment Lists (MEL) and Operations With Inoperative Equipment · Preventive Maintenance · Airworthiness Directives (ADs) · Aircraft Owner/Operator Responsibilities
- ☐ **Core PHAK ch 10 Weight and Balance** p. 10-1
 - Supports I.F
 - Weight Control · Balance, Stability, and Center of Gravity · Determining Loaded Weight and CG
- ☐ **Core PHAK ch 11 Aircraft Performance** p. 11-1
 - Supports I.F IV.A IV.E IV.F
 - Importance of Performance Data · Structure of the Atmosphere · Atmospheric Pressure · Pressure Altitude · Density Altitude · Performance · Performance Speeds · Performance Charts · Transport Category Aircraft Performance · Air Carrier Obstacle Clearance Requirements
- ☐ **Core PHAK ch 12 Weather Theory** p. 12-1
 - Supports I.C
 - Atmosphere · Coriolis Force · Measurement of Atmosphere Pressure · Altitude and Atmospheric Pressure · Altitude and Flight · Altitude and the Human Body · Wind and Currents · Atmospheric Stability · Air Masses · Fronts
- ☐ **Core PHAK ch 13 Aviation Weather Services** p. 13-1
 - Supports I.C
 - Observations · Service Outlets · Weather Briefings · Aviation Weather Reports · Weather Charts · ATC Radar Weather Displays · Electronic Flight Displays (EFD) /Multi-Function Weather Products Age and Expiration · Pilot Responsibility
- ☐ **Core PHAK ch 14 Airport Operations** p. 14-1
 - Supports II.D III.A III.B
 - Airport Categories · Sources for Airport Data · Airport Markings and Signs · Airport Lighting · Wind Direction Indicators · Traffic Patterns · Radio Communications · Air Traffic Control (ATC) Services · Wake Turbulence · Collision Avoidance · Engineered Materials Arresting Systems (EMAS)
- ☐ **Core PHAK ch 15 Airspace** p. 15-1
 - Supports I.E
 - Controlled Airspace · Uncontrolled Airspace · Special Use Airspace · Other Airspace Areas · Air Traffic Control and the National Airspace System
- ☐ **Core PHAK ch 16 Navigation** p. 16-1
 - Supports I.D VI.A VI.B VI.C VI.D VIII.F
 - Aeronautical Charts · Latitude and Longitude (Meridians and Parallels) · Effect of Wind · Basic Calculations · Pilotage · Dead Reckoning · Flight Planning · Charting the Course · Filing a VFR Flight Plan · Ground-Based Navigation · Lost Procedures · Flight Diversion
- ☐ **Core PHAK ch 17 Aeromedical Factors** p. 17-1
 - Supports I.A I.H XI.A
 - Obtaining a Medical Certificate · Health and Physiological Factors Affecting Pilot Performance · Vision in Flight
- ☐ **Skim PHAK App. A Performance Data for Cessna Model 172R and Challenger 605** p. A-1
- ☐ **Skim PHAK App. B Acronyms, Abbreviations, and NOTAM Contractions** p. B-1
- ☐ **Core PHAK App. C Airport Signs and Markings** p. C-1
 - Supports II.D

Airplane Flying Handbook

FAA-H-8083-3C (2021) with its October 2025 addendum

“Until the revision of FAA-H-8083-3 is published, this addendum is considered part of the current edition of the handbook and should be used as a reference.”
AFH addendum (MOSAIC rule published July 18, 2025, effective October 22, 2025)

- ☐ **Core AFH ch 1 Introduction to Flight Training** p. 1-1
 - Supports II.B II.D
 - Role of the FAA · Role of the Pilot Examiner · Role of the Flight Instructor · Sources of Flight Training · Airman Certification Standards (ACS) and Practical Test Standards (PTS) · Safety Considerations · Continuing Education

- ☐ **Core AFH ch 2 Ground Operations** p. 2-1
 ▶ Supports II.A II.B II.C II.D II.F XII.A
 Preflight Assessment of the Aircraft · Risk and Resource Management · Ground Operations · Engine Starting · Hand Propping · Taxiing · Before Takeoff Check · Clear of Runway and Stopped · Parking · Engine Shutdown · Post-Flight
- ☐ **Core AFH ch 3 Basic Flight Maneuvers** p. 3-1
 The Four Fundamentals · Effect and Use of Flight Controls · Attitude Flying · Integrated Flight Instruction · Straight-and-Level Flight · Trim Control · Level Turns · Climbs and Climbing Turns · Descents and Descending Turns · Glides
- ☐ **Core AFH ch 4 Energy Management: Mastering Altitude and Airspeed Control** p. 4-1
 ▶ Supports IV.B IV.M IV.N
 Importance of Energy Management · Role of the Controls to Manage Energy State · Rules of Energy Control · Mitigating Risks from Mismanagement of Energy · Review of Definitions and Terms
- ☐ **Core AFH ch 5 Maintaining Aircraft Control: Upset Prevention and Recovery Training** p. 5-1
 ▶ Supports VII.A VII.B VII.C VII.D VIII.E
 Upset Prevention and Recovery · Slow Flight · Stalls
- ☐ **Core AFH ch 6 Takeoffs and Departure Climbs** p. 6-1
 ▶ Supports IV.A IV.C IV.E
 Prior to Takeoff · Normal Takeoff · Crosswind Takeoff · Ground Effect on Takeoff · Short-Field Takeoff and Maximum Performance Climb · Soft/Rough-Field Takeoff and Climb · Rejected Takeoff/Engine Failure · Noise Abatement
- ☐ **Core AFH ch 7 Ground Reference Maneuvers** p. 7-1
 ▶ Supports V.B
 Maneuvering by Reference to Ground Objects · Drift and Ground Track Control · Rectangular Course · Turns Around a Point · S-Turns · Elementary Eights
- ☐ **Core AFH ch 8 Airport Traffic Patterns** p. 8-1
 ▶ Supports III.B
 Airport Traffic Patterns and Operations · Standard Airport Traffic Patterns · Non-Towered Airports · Safety Considerations
- ☐ **Core AFH ch 9 Approaches and Landings** p. 9-1
 ▶ Supports IV.B IV.D IV.F IV.M IV.N IX.B
 Use of Flaps · Normal Approach and Landing · Go-Arounds (Rejected Landings) · Intentional Slips · Crosswind Approach and Landing · Turbulent Air Approach and Landing · Short-Field Approach and Landing · Soft-Field Approach and Landing · Power-Off Accuracy Approaches · Emergency Approaches and Landings (Simulated) · Faulty Approaches and Landings · Hydroplaning
- ☐ **Core AFH ch 10 Performance Maneuvers** p. 10-1
 ▶ Supports V.A
 Steep Spiral · Chandelle · Lazy Eight
- ☐ **Core AFH ch 11 Night Operations** p. 11-1
 ▶ Supports XI.A
 Night Vision · Night Illusions · Pilot Equipment · Airplane Equipment and Lighting · Airport and Navigation Lighting Aids · Training for Night Flight · Preparation and Preflight · Starting, Taxiing, and Run-up · Takeoff and Climb · Orientation and Navigation · Approaches and Landings · How to Prevent Landing Errors Due to Optical Illusions
- ☐ **Skim AFH ch 12 Transition to Complex Airplanes** p. 12-1
 ▶ Read it if your trainer has a controllable-pitch propeller or retractable landing gear.
 Controllable-Pitch Propeller · Turbocharging · Retractable Landing Gear · Transition Training
- ☐ **Skip for ASEL AFH ch 13 Transition to Multiengine Airplanes** p. 13-1
- ☐ **Skim AFH ch 14 Transition to Tailwheel Airplanes** p. 14-1
 ▶ Read it if you train in a tailwheel airplane.
 Landing Gear · Angle of Attack · Taxiing · Weathervaning · Visibility · Directional Control · Normal Takeoff Roll · Liftoff · Crosswind Takeoff · Short-Field Takeoff · Soft-Field Takeoff · Landing · Touchdown · After-Landing Roll · Crosswind After-Landing Roll · Short-Field Landing · Soft-Field Landing · Ground Loop
- ☐ **Skip for ASEL AFH ch 15 Transition to Turbopropeller-Powered Airplanes** p. 15-2
- ☐ **Skip for ASEL AFH ch 16 Transition to Jet-Powered Airplanes** p. 16-1
- ☐ **Skip for ASEL AFH ch 17 Transition to Light Sport Airplanes (LSA)** p. 17-1
 ▶ The FAA's addendum says this chapter will be removed.
- ☐ **Core AFH ch 18 Emergency Procedures** p. 18-1
 ▶ Supports VIII.E IX.A IX.B IX.C IX.D
 Emergency Situations · Emergency Landings · Basic Safety Concepts · Terrain Types · Engine Failure After Takeoff (Single-Engine) · Emergency Descents · In-Flight Fire · Flight Control Malfunction/Failure · System Malfunctions · Abnormal Engine Instrument Indication · Door Opening In-Flight · Inadvertent VFR Flight Into IMC · Emergency Response Systems

Risk Management Handbook

FAA-H-8083-2A (2022)

- ☐ **Core RMH ch 1 Introduction to Risk Management** p. 1-1
 Safety Management Systems in Aviation · Accident Causality & Responsibility · Risk Management Analysis Using the PAVE Checklist
- ☐ **Core RMH ch 2 Personal Minimums** p. 2-1
 ▶ Supports I.A II.A
 Personal Minimums · Using the FAA WINGS Program for Risk Mitigation & Safety
- ☐ **Core RMH ch 3 Identifying Hazards & Associated Risks** p. 3-1
 ▶ Supports II.A
 Why Hazards Result in Aviation Accidents · Leading Accident Causes · Using the PAVE Checklist to Identify Hazards · Hazard Combinations · Hazards and Associated Risks
- ☐ **Core RMH ch 4 Assessing Risk** p. 4-1
 Using a Risk Assessment Matrix · Case Study
- ☐ **Core RMH ch 5 Mitigating Risk** p. 5-1
 Preflight Risk Mitigation Strategies · Case Study · Balanced Approach to Risk Management
- ☐ **Skim RMH ch 6 Threat and Error Management** p. 6-1
 Threats · What is an Error? · What is an Undesired Aircraft State?
- ☐ **Skim RMH ch 7 Automation & Flight Path Management** p. 7-1
 Reliance on Automation · Balancing Automated & Manual Flight · Interacting with Automation · Failure to Anticipate, Act, & Verify · Integrated Flight Path Automation Systems
- ☐ **Core RMH ch 8 Aeronautical Decision-Making in Flight** p. 8-1
 ▶ Supports I.H VI.C
 ADM Background · Analytical Decision-Making · Naturalistic Decision-Making · Single-Pilot Resource Management
- ☐ **Skim RMH App. A Risk Management Training**
- ☐ **Skim RMH App. B Risk Management Tools**
- ☐ **Skim RMH App. C Accident Case Studies**
- ☐ **Skim RMH App. D Risk Management Exercises**

Your airplane's POH or AFM

Section list as described in FAA-H-8083-25C chapter 9. ▶ [Your airplane's book may be organized differently; find the same topics in it.](#)

- ☐ **Core** Section 1 General
- ☐ **Core** Section 2 Limitations
 - Supports I.F IV.M V.A VII.A VII.B VII.C VII.D IX.A
- ☐ **Core** Section 3 Emergency Procedures
 - Supports I.G VII.D VIII.E IX.A IX.B IX.C IX.D
- ☐ **Core** Section 4 Normal Procedures
 - Supports II.A II.B II.C II.F IV.A IV.B IV.C IV.D IV.E IV.F IV.N VII.B VII.C XII.A
- ☐ **Core** Section 5 Performance
 - Supports I.F IV.A IV.B IV.C IV.D IV.E IV.F
- ☐ **Core** Section 6 Weight and Balance/Equipment List
 - Supports I.F
- ☐ **Core** Section 7 Systems Description
 - Supports I.G
- ☐ **Core** Section 8 Handling, Service, and Maintenance
 - Supports XII.A
- ☐ **Core** Section 9 Supplements
 - Supports IX.D
- ☐ **Skim** Section 10 Safety Tips

Aeronautical Information Manual

Change 3, effective 7/9/2026 · chapters 1 to 9 **Chapter 1. Air Navigation**

- ☐ **Core** AIM 1-1 Navigation Aids
 - Supports VI.B
- ☐ **Skim** AIM 1-2 Performance-Based Navigation (PBN) and Area Navigation (RNAV)
 - Supports VI.B

Chapter 2. Aeronautical Lighting and Other Airport Visual Aids

- ☐ **Core** AIM 2-1 Airport Lighting Aids
 - Supports III.A IV.B XI.A
- ☐ **Core** AIM 2-2 Air Navigation and Obstruction Lighting
 - Supports XI.A
- ☐ **Core** AIM 2-3 Airport Marking Aids and Signs
 - Supports II.D

Chapter 3. Airspace

- ☐ **Core** AIM 3-1 General
 - Supports I.E
- ☐ **Core** AIM 3-2 Controlled Airspace
 - Supports I.E
- ☐ **Core** AIM 3-3 Class G Airspace
 - Supports I.E
- ☐ **Core** AIM 3-4 Special Use Airspace
 - Supports I.E
- ☐ **Core** AIM 3-5 Other Airspace Areas
 - Supports I.E

Chapter 4. Air Traffic Control

- ☐ **Core** AIM 4-1 Services Available to Pilots
 - Supports III.A III.B VI.B VI.C VI.D VIII.F
- ☐ **Core** AIM 4-2 Radio Communications Phraseology and Techniques
 - Supports III.A VIII.F
- ☐ **Core** AIM 4-3 Airport Operations
 - Supports II.D III.A III.B
- ☐ **Skim** AIM 4-4 ATC Clearances and Aircraft Separation
- ☐ **Skim** AIM 4-5 Surveillance Systems
 - Supports VI.B
- ☐ **Skip for ASEL** AIM 4-6 Operational Policy/Procedures for Reduced Vertical Separation Minimum (RVSM) in the Domestic U.S., Alaska, Offshore Airspace and the San Juan FIR
- ☐ **Skip for ASEL** AIM 4-7 Operational Policy/Procedures for the Gulf of America 50 NM Lateral Separation Initiative

Chapter 5. Air Traffic Procedures

- ☐ **Core** AIM 5-1 Preflight
 - Supports I.D II.D
- ☐ **Skim** AIM 5-2 Departure Procedures
- ☐ **Skim** AIM 5-3 En Route Procedures
- ☐ **Skim** AIM 5-4 Arrival Procedures
 - Its paragraphs are largely instrument arrival and approach procedures.
- ☐ **Skim** AIM 5-5 Pilot/Controller Roles and Responsibilities
- ☐ **Core** AIM 5-6 National Security and Interception Procedures
 - Supports I.D I.E

Chapter 6. Emergency Procedures

- ☐ **Core** AIM 6-1 General
- ☐ **Core** AIM 6-2 Emergency Services Available to Pilots
 - Supports VI.D VIII.F IX.B IX.D
- ☐ **Core** AIM 6-3 Distress and Urgency Procedures
 - Supports VI.D IX.B
- ☐ **Core** AIM 6-4 Two-way Radio Communications Failure
 - Supports III.A
- ☐ **Skim** AIM 6-5 Aircraft Rescue and Fire Fighting Communications

Chapter 7. Safety of Flight

- ☐ **Core** AIM 7-1 Meteorology
 - Supports I.C
- ☐ **Core** AIM 7-2 Barometric Altimeter Errors and Setting Procedures
- ☐ **Skim** AIM 7-3 Cold Temperature Barometric Altimeter Errors, Setting Procedures and Cold Temperature Airports (CTA)
- ☐ **Core** AIM 7-4 Wake Turbulence
 - Supports IV.A IV.B

- ☐ **Core** AIM 7-5 Bird Hazards and Flight Over National Refuges, Parks, and Forests
- ☐ **Core** AIM 7-6 Potential Flight Hazards
- ☐ **Core** AIM 7-7 Safety, Accident, and Hazard Reports
 - ▶ Supports III.A

Chapter 8. Medical Facts for Pilots

- ☐ **Core** AIM 8-1 Fitness for Flight
 - ▶ Supports I.H XI.A

Chapter 9. Aeronautical Charts and Related Publications

- ☐ **Core** AIM 9-1 Types of Charts Available
 - ▶ Supports I.D

Aviation Weather Handbook

FAA-H-8083-28B (04/02/2026) - page numbers from its table of contents

- ☐ **Skim** AWH ch 1 Introduction

p. 1-1

Part 1: Overview of the United States Aviation Weather Service Program and Information

- ☐ **Core** AWH ch 2 Aviation Weather Service Program
 - ▶ Supports I.C
- ☐ **Core** AWH ch 3 Overview of Aviation Weather Information
 - ▶ Supports I.C

p. 2-1

p. 3-1

Part 2: Weather Theory and Aviation Hazards

- ☐ **Core** AWH ch 4 The Earth's Atmosphere
 - ▶ Supports I.C
- ☐ **Core** AWH ch 5 Heat and Temperature
 - ▶ Supports I.C
- ☐ **Core** AWH ch 6 Water Vapor
 - ▶ Supports I.C
- ☐ **Skim** AWH ch 7 Earth-Atmosphere Heat Imbalances
 - ▶ Supports I.C
- ☐ **Core** AWH ch 8 Atmospheric Pressure and Altimetry
 - ▶ Supports I.C
- ☐ **Skim** AWH ch 9 Global Circulations and Jet Streams
 - ▶ Supports I.C
- ☐ **Core** AWH ch 10 Wind
 - ▶ Supports I.C
- ☐ **Core** AWH ch 11 Air Masses, Fronts, and the Wave Cyclone Model
 - ▶ Supports I.C
- ☐ **Core** AWH ch 12 Vertical Motion and Clouds
 - ▶ Supports I.C
- ☐ **Core** AWH ch 13 Atmospheric Stability
 - ▶ Supports I.C
- ☐ **Core** AWH ch 14 Precipitation
 - ▶ Supports I.C
- ☐ **Skim** AWH ch 15 Weather Radar
 - ▶ Supports I.C
- ☐ **Core** AWH ch 16 Mountain Weather
 - ▶ Supports I.C
- ☐ **Skim** AWH ch 17 Tropical Weather
 - ▶ Supports I.C
- ☐ **Core** AWH ch 18 Weather and Obstructions to Visibility
 - ▶ Supports I.C
- ☐ **Core** AWH ch 19 Turbulence
 - ▶ Supports I.C
- ☐ **Core** AWH ch 20 Icing
 - ▶ Supports I.C
- ☐ **Skip for ASEL** AWH ch 21 Arctic Weather
- ☐ **Core** AWH ch 22 Thunderstorms
 - ▶ Supports I.C
- ☐ **Skip for ASEL** AWH ch 23 Space Weather

p. 4-1

p. 5-1

p. 6-1

p. 7-1

p. 8-1

p. 9-1

p. 10-1

p. 11-1

p. 12-1

p. 13-1

p. 14-1

p. 15-1

p. 16-1

p. 17-1

p. 18-1

p. 19-1

p. 20-1

p. 21-1

p. 22-1

p. 23-1

Part 3: Technical Details Relating to Weather Products and Aviation Weather Tools

- ☐ **Core** AWH ch 24 Observations
 - ▶ Supports I.C
- ☐ **Core** AWH ch 25 Analysis
 - ▶ Supports I.C
- ☐ **Core** AWH ch 26 Advisories
 - ▶ Supports I.C
- ☐ **Core** AWH ch 27 Forecasts
 - ▶ Supports I.C
- ☐ **Core** AWH ch 28 Aviation Weather Tools
 - ▶ Supports I.C
- ☐ **Skim** AWH App. A Cloud Types
- ☐ **Skim** AWH App. B Standard Conversion Chart
- ☐ **Skim** AWH App. C Density Altitude Calculation
 - ▶ Supports I.F
- ☐ **Skip for ASEL** AWH App. D Special Terminal Operation Procedures (STOP) for Operations in a Noncontiguous State
- ☐ **Skim** AWH App. E Abbreviations, Acronyms, and Initialisms
- ☐ **Skim** AWH App. F Units of Measurement
- ☐ **Skim** AWH App. G Websites

p. 24-1

p. 25-1

p. 26-1

p. 27-1

p. 28-1

p. A-1

p. B-1

p. C-1

p. D-1

p. E-1

p. F-1

p. G-1

Instrument Flying Handbook

FAA-H-8083-15B (2012) - cited by the ACS in Area of Operation VIII

- ☐ **Skip for ASEL** IFH ch 1 The National Airspace System

p. 1-1

- ☐ **Skim** IFH ch 2 The Air Traffic Control System p. 2-1
 - Supports VIII.F
 - Communication Equipment · Communication Procedures · Communication Facilities · ATC Inflight Weather Avoidance Assistance · Approach Control Facility · Approach Control Advances · Control Sequence
- ☐ **Skim** IFH ch 3 Human Factors p. 3-1
 - Supports I.H VIII.E
 - Sensory Systems for Orientation · Illusions Leading to Spatial Disorientation · Postural Considerations · Demonstration of Spatial Disorientation · Coping with Spatial Disorientation · Optical Illusions · How To Prevent Landing Errors Due to Optical Illusions
- ☐ **Skip for ASEL** IFH ch 4 Aerodynamic Factors p. 4-1
- ☐ **Skim** IFH ch 5 Flight Instruments p. 5-1
 - Pitot/Static Systems · Pitot/Static Instruments · Dynamic Pressure Type Instruments · Magnetism · Gyroscopic Systems · Gyroscopic Instruments · Flight Support Systems · Analog Pictorial Displays · Flight Management Systems (FMS) · Primary Flight Display (PFD) · Advanced Technology Systems · Safety Systems · Required Navigation Instrument System Inspection
- ☐ **Core** IFH ch 6 sec I Airplane Attitude Instrument Flying Using Analog Instrumentation p. 6-1
 - Supports VIII.A VIII.B VIII.C VIII.D
 - Read the analog sections if your airplane has analog instruments.
 - Learning Methods · Fundamental Skills
- ☐ **Core** IFH ch 6 sec II Airplane Attitude Instrument Flying Using an Electronic Flight Display p. 6-15
 - Supports VIII.A VIII.B VIII.C VIII.D VIII.E
 - Read the electronic flight display sections if your airplane has a glass panel.
 - Learning Methods · Fundamental Skills of Attitude Instrument Flying · Scanning Techniques · Common Errors
- ☐ **Core** IFH ch 7 sec I Airplane Basic Flight Maneuvers Using Analog Instrumentation p. 7-1
 - Supports VIII.A VIII.B VIII.C VIII.D VIII.E
 - Read the analog sections if your airplane has analog instruments.
 - Straight-and-Level Flight · Straight Climbs and Descents · Turns · Approach to Stall · Unusual Attitudes and Recoveries · Instrument Takeoff · Basic Instrument Flight Patterns
- ☐ **Core** IFH ch 7 sec II Airplane Basic Flight Maneuvers Using an Electronic Flight Display p. 7-33
 - Supports VIII.A VIII.B VIII.C VIII.D
 - Read the electronic flight display sections if your airplane has a glass panel.
 - Straight-and-Level Flight · Straight Climbs and Descents · Turns · Instrument Takeoff · Basic Instrument Flight Patterns
- ☐ **Skip for ASEL** IFH ch 8 Helicopter Attitude Instrument Flying p. 8-1
- ☐ **Skim** IFH ch 9 Navigation Systems p. 9-1
 - Supports VI.B VIII.F
 - Basic Radio Principles · Traditional Navigation Systems · Advanced Technologies · Instrument Approach Systems · Required Navigation Performance · Flight Management Systems (FMS) · Head-Up Display (HUD) · Radar Navigation (Ground-Based)
- ☐ **Skip for ASEL** IFH ch 10 IFR Flight p. 10-1
- ☐ **Skim** IFH ch 11 Emergency Operations p. 11-1
 - Supports IX.C
 - Unforecast Adverse Weather · Aircraft System Malfunctions · Analog Instrument Failure · Pneumatic System Failure · Pitot/Static System Failure · Communication/Navigation System Malfunction · GPS Nearest Airport Function · Situational Awareness
- ☐ **Skip for ASEL** IFH App. A Clearance Shorthand p. A-1
- ☐ **Skip for ASEL** IFH App. B Instrument Training Lesson Guide p. B-1

Weight & Balance Handbook

FAA-H-8083-1B (2016) with its October 2025 addendum

“Until the revision of FAA-H-8083-1B is published, this addendum is considered part of the current edition of the handbook and should be used as a reference.”
W&B Handbook addendum (MOSAIC rule published July 18, 2025, effective October 22, 2025)

- ☐ **Core** W&B Handbook ch 1 Weight and Balance Control p. 1-1
 - Responsibility for Weight and Balance Control · Terminology · Weight Control · Effects of Weight · Weight Changes · Stability and Balance Control · Weight Control for Aircraft Other Than Fixed and Rotor-wing · Underestimating the Importance of Weight and Balance
- ☐ **Core** W&B Handbook ch 2 Weight and Balance Theory p. 2-1
 - Supports I.F
 - Weight and Balance Theory · The Law of the Lever · Shifting the Balance Point or CG · Mean Aerodynamic Chord · FAA-Furnished Weight and Balance Information · Manufacturer-Furnished Information
- ☐ **Skim** W&B Handbook ch 3 Weighing the Aircraft and Determining the Empty Weight Center of Gravity p. 3-1
 - Requirements · Equipment for Weighing · Preparation for Weighing · Determining the CG · EWCG Formulas · Location of Datum · Center of Gravity (CG) and Mean Aerodynamic Chord (MAC)
- ☐ **Skip for ASEL** W&B Handbook ch 4 Light Sport Aircraft Weight and Balance Control p. 4-1
- ☐ **Core** W&B Handbook ch 5 Single-Engine Aircraft Weight and Balance Computations p. 5-1
 - Supports I.F
 - Determining the Loaded Weight and CG
- ☐ **Skip for ASEL** W&B Handbook ch 6 Multiengine Aircraft Weight and Balance Computations p. 6-1
- ☐ **Skim** W&B Handbook ch 7 Center of Gravity Change After a Repair or Alteration p. 7-1
 - Equipment List · Major Alteration and Repair · Weight and Balance Revision Record · Weight Changes Caused by a Repair or Alteration · Empty Weight CG (EWCG) Range · Adverse-Load CG Checks · Ballast
- ☐ **Skip for ASEL** W&B Handbook ch 8 Weight and Balance Control—Helicopter p. 8-1
- ☐ **Skip for ASEL** W&B Handbook ch 9 Weight and Balance Control—Commuter Category and Large Aircraft p. 9-1
- ☐ **Skim** W&B Handbook ch 10 Use of Computer for Weight and Balance Computations p. 10-1
 - Electronic Calculator · E6-B Flight Computer · Dedicated Electronic Flight Computer

► Section by section. Read each section's full text at [ecfr.gov](https://www.ecfr.gov).

Section titles from the eCFR, structure as of 2026-09-11.

14 CFR part 1 — Definitions and Abbreviations

- ☐ 1.1 General definitions.
- ☐ 1.2 Abbreviations and symbols.
- ☐ 1.3 Rules of construction.

14 CFR part 39 — Airworthiness Directives

- ☐ 39.1 Purpose of this regulation.
- ☐ 39.3 Definition of airworthiness directives.
- ☐ 39.5 When does FAA issue airworthiness directives?
- ☐ 39.7 What is the legal effect of failing to comply with an airworthiness directive?
- ☐ 39.9 What if I operate an aircraft or use a product that does not meet the requirements of an airworthiness directive?
- ☐ 39.11 What actions do airworthiness directives require?
- ☐ 39.13 Are airworthiness directives part of the Code of Federal Regulations?
- ☐ 39.15 Does an airworthiness directive apply if the product has been changed?
- ☐ 39.17 What must I do if a change in a product affects my ability to accomplish the actions required in an airworthiness directive?
- ☐ 39.19 May I address the unsafe condition in a way other than that set out in the airworthiness directive?
- ☐ 39.21 Where can I get information about FAA-approved alternative methods of compliance?
- ☐ 39.23 May I fly my aircraft to a repair facility to do the work required by an airworthiness directive?
- ☐ 39.25 How do I get a special flight permit?
- ☐ 39.27 What do I do if the airworthiness directive conflicts with the service document on which it is based?

14 CFR part 43 — Maintenance, Preventive Maintenance, Rebuilding, and Alteration

- ☐ 43.1 Applicability.
- ☐ 43.2 Records of overhaul and rebuilding.
- ☐ 43.3 Persons authorized to perform maintenance, preventive maintenance, rebuilding, and alterations.
- ☐ 43.5 Approval for return to service after maintenance, preventive maintenance, rebuilding, or alteration.
- ☐ 43.7 Persons authorized to approve aircraft, airframes, aircraft engines, propellers, appliances, or component parts for return to service after maintenance, preventive maintenance, rebuilding, or alteration.
- ☐ 43.9 Content, form, and disposition of maintenance, preventive maintenance, rebuilding, and alteration records (except inspections performed in accordance with part 91, part 125, § 135.411(a)(1), and § 135.419 of this chapter).
- ☐ 43.10 Disposition of life-limited aircraft parts.
- ☐ 43.11 Content, form, and disposition of records for inspections conducted under parts 91 and 125 and §§ 135.411(a)(1) and 135.419 of this chapter.
- ☐ 43.13 Performance rules (general).
- ☐ 43.15 Additional performance rules for inspections.
- ☐ 43.16 Airworthiness limitations.
- ☐ 43.17 Maintenance, preventive maintenance, and alterations performed on U.S. aeronautical products by certain Canadian persons.
- ☐ Appendix A to Part 43 — Major Alterations, Major Repairs, and Preventive Maintenance

14 CFR part 61 — Certification: Pilots, Flight Instructors, and Ground Instructors

Subpart A — General

- ☐ 61.1 Applicability and definitions.
- ☐ 61.2 Exercise of Privilege.
- ☐ 61.3 Requirement for certificates, ratings, privileges, and authorizations.
- ☐ 61.4 Qualification and approval of flight simulators and flight training devices.
- ☐ 61.5 Certificates and ratings issued under this part.
- ☐ 61.7 Obsolete certificates and ratings.
- ☐ 61.8 Inapplicability of unmanned aircraft operations.
- ☐ 61.9 Inapplicability of simplified flight controls aircraft experience credit.
- ☐ 61.11 Expired pilot certificates and re-issuance.
- ☐ 61.13 Issuance of airman certificates, ratings, and authorizations.
- ☐ 61.14 Incorporation by Reference.
- ☐ 61.15 Offenses involving alcohol or drugs.
- ☐ 61.16 Refusal to submit to an alcohol test or to furnish test results.
- ☐ 61.17 Temporary certificate.
- ☐ 61.19 Duration of pilot and instructor certificates and privileges.
- ☐ 61.21 Duration of a Category II and a Category III pilot authorization (for other than part 121 and part 135 use).
- ☐ 61.23 Medical certificates: Requirement and duration.
- ☐ 61.25 Change of name.
- ☐ 61.27 Voluntary surrender or exchange of certificate.
- ☐ 61.29 Replacement of a lost or destroyed airman or medical certificate or knowledge test report.
- ☐ 61.31 Type rating requirements, additional training, and authorization requirements.
- ☐ 61.33 Tests: General procedure.
- ☐ 61.35 Knowledge test: Prerequisites and passing grades.
- ☐ 61.37 Knowledge tests: Cheating or other unauthorized conduct.
- ☐ 61.39 Prerequisites for practical tests.

- ☐ 61.40 Relief for U.S. Military and civilian personnel who are assigned outside the United States in support of U.S. Armed Forces operations.
- ☐ 61.41 Flight training received from flight instructors not certificated by the FAA.
- ☐ 61.43 Practical tests: General procedures.
- ☐ 61.45 Practical tests: Required aircraft and equipment.
- ☐ 61.47 Status and responsibilities of an examiner who is authorized by the Administrator to conduct practical tests.
- ☐ 61.49 Retesting after failure.
- ☐ 61.51 Pilot logbooks.
- ☐ 61.52 Use of aeronautical experience obtained in ultralight vehicles.
- ☐ 61.53 Prohibition on operations during medical deficiency.
- ☐ 61.55 Second-in-command qualifications.
- ☐ 61.56 Flight review.
- ☐ 61.57 Recent flight experience: Pilot in command.
- ☐ 61.58 Pilot-in-command proficiency check: Operation of an aircraft that requires more than one pilot flight crewmember or is turbojet-powered.
- ☐ 61.60 Change of address.

Subpart C — Student Pilots

- ☐ 61.81 Applicability.
- ☐ 61.83 Eligibility requirements for student pilots.
- ☐ 61.85 Application.
- ☐ 61.87 Solo requirements for student pilots.
- ☐ 61.89 General limitations.
- ☐ 61.93 Solo cross-country flight requirements.
- ☐ 61.94 Student pilot seeking a sport pilot certificate or a recreational pilot certificate: Operations at airports within, and in airspace located within, Class B, C, and D airspace, or at airports with an operational control tower in other airspace.
- ☐ 61.95 Operations in Class B airspace and at airports located within Class B airspace.

Subpart E — Private Pilots

- ☐ 61.102 Applicability.
- ☐ 61.103 Eligibility requirements: General.
- ☐ 61.105 Aeronautical knowledge.
- ☐ 61.107 Flight proficiency.
- ☐ 61.109 Aeronautical experience.
- ☐ 61.110 Night flying exceptions.
- ☐ 61.111 Cross-country flights: Pilots based on small islands.
- ☐ 61.113 Private pilot privileges and limitations: Pilot in command.
- ☐ 61.115 Balloon rating: Limitations.
- ☐ 61.117 Private pilot privileges and limitations: Second in command of aircraft requiring more than one pilot.

14 CFR part 67 — Medical Standards and Certification

Subpart A — General

- ☐ 67.1 Applicability.
- ☐ 67.3 Issue.
- ☐ 67.4 Application.
- ☐ 67.7 Access to the National Driver Register.

Subpart D — Third-Class Airman Medical Certificate

- ☐ 67.301 Eligibility.
- ☐ 67.303 Eye.
- ☐ 67.305 Ear, nose, throat, and equilibrium.
- ☐ 67.307 Mental.
- ☐ 67.309 Neurologic.
- ☐ 67.311 Cardiovascular.
- ☐ 67.313 General medical condition.
- ☐ 67.315 Discretionary issuance.

Subpart E — Certification Procedures

- ☐ 67.401 Special issuance of medical certificates.
- ☐ 67.405 Medical examinations: Who may perform?
- ☐ 67.407 Delegation of authority.
- ☐ 67.409 Denial of medical certificate.
- ☐ 67.413 Medical records.
- ☐ 67.415 Return of medical certificate after suspension or revocation.

14 CFR part 68 — Requirements for Operating Certain Small Aircraft Without a Medical Certificate

- ☐ 68.1 Applicability.
- ☐ 68.3 Medical education course requirements.
- ☐ 68.5 Comprehensive medical examination.
- ☐ 68.7 Comprehensive medical examination checklist.
- ☐ 68.9 Special Issuance process.
- ☐ 68.11 Authority to require additional information.

14 CFR part 71 — Designation of Class A, B, C, D, and E Airspace Areas; Air Traffic Service Routes; and Reporting Points

- ☐ 71.1 Applicability.
- ☐ 71.5 Reporting points.
- ☐ 71.7 Bearings, radials, and mileages.
- ☐ 71.9 Overlapping airspace designations.

- ☐ **71.11** Air Traffic Service (ATS) routes.
- ☐ **71.13** Classification of Air Traffic Service (ATS) routes.
- ☐ **71.15** Designation of jet routes and VOR Federal airways.

Subpart A — Class A Airspace

- ☐ **71.31** Class A airspace.
- ☐ **71.33** Class A airspace areas.

Subpart B — Class B Airspace

- ☐ **71.41** Class B airspace.

Subpart C — Class C Airspace

- ☐ **71.51** Class C airspace.

Subpart D — Class D Airspace

- ☐ **71.61** Class D airspace.

Subpart E — Class E Airspace

- ☐ **71.71** Class E airspace.

14 CFR part 91 — General Operating and Flight Rules

Subpart A — General

- ☐ **91.1** Applicability.
- ☐ **91.3** Responsibility and authority of the pilot in command.
- ☐ **91.5** Pilot in command of aircraft requiring more than one required pilot.
- ☐ **91.7** Civil aircraft airworthiness.
- ☐ **91.9** Civil aircraft flight manual, marking, and placard requirements.
- ☐ **91.11** Prohibition on interference with crewmembers.
- ☐ **91.13** Careless or reckless operation.
- ☐ **91.15** Dropping objects.
- ☐ **91.17** Alcohol or drugs.
- ☐ **91.19** Carriage of narcotic drugs, marihuana, and depressant or stimulant drugs or substances.
- ☐ **91.21** Portable electronic devices.
- ☐ **91.23** Truth-in-leasing clause requirement in leases and conditional sales contracts.
- ☐ **91.25** Aviation Safety Reporting Program: Prohibition against use of reports for enforcement purposes.

Subpart B — Flight Rules *General*

- ☐ **91.101** Applicability.
- ☐ **91.103** Preflight action.
- ☐ **91.105** Flight crewmembers at stations.
- ☐ **91.107** Use of safety belts, shoulder harnesses, and child restraint systems.
- ☐ **91.108** Use of supplemental restraint systems.
- ☐ **91.109** Flight instruction; Simulated instrument flight and certain flight tests.
- ☐ **91.111** Operating near other aircraft.
- ☐ **91.113** Right-of-way rules: Except water operations.
- ☐ **91.115** Right-of-way rules: Water operations.
- ☐ **91.117** Aircraft speed.
- ☐ **91.119** Minimum safe altitudes: General.
- ☐ **91.121** Altimeter settings.
- ☐ **91.123** Compliance with ATC clearances and instructions.
- ☐ **91.125** ATC light signals.
- ☐ **91.126** Operating on or in the vicinity of an airport in Class G airspace.
- ☐ **91.127** Operating on or in the vicinity of an airport in Class E airspace.
- ☐ **91.129** Operations in Class D airspace.
- ☐ **91.130** Operations in Class C airspace.
- ☐ **91.131** Operations in Class B airspace.
- ☐ **91.133** Restricted and prohibited areas.
- ☐ **91.135** Operations in Class A airspace.
- ☐ **91.137** Temporary flight restrictions in the vicinity of disaster/hazard areas.
- ☐ **91.138** Temporary flight restrictions in national disaster areas in the State of Hawaii.
- ☐ **91.139** Emergency air traffic rules.
- ☐ **91.141** Flight restrictions in the proximity of the Presidential and other parties.
- ☐ **91.143** Flight limitation in the proximity of space flight operations.
- ☐ **91.144** Temporary restriction on flight operations during abnormally high barometric pressure conditions.
- ☐ **91.145** Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events.
- ☐ **91.146** Passenger-carrying flights for the benefit of a charitable, nonprofit, or community event.
- ☐ **91.147** Passenger-carrying flights for compensation or hire.

Visual Flight Rules

- ☐ **91.151** Fuel requirements for flight in VFR conditions.
 - ☐ **91.153** VFR flight plan: Information required.
 - ☐ **91.155** Basic VFR weather minimums.
 - ☐ **91.157** Special VFR weather minimums.
 - ☐ **91.159** VFR cruising altitude or flight level.
 - ☐ **91.161** Special awareness training required for pilots flying under visual flight rules within a 60-nautical mile radius of the Washington, DC VOR/DME.
- #### Subpart C — Equipment, Instrument, and Certificate Requirements
- ☐ **91.203** Civil aircraft: Certifications required.
 - ☐ **91.205** Powered civil aircraft with standard U.S. airworthiness certificates: Instrument and equipment requirements.
 - ☐ **91.207** Emergency locator transmitters.
 - ☐ **91.209** Aircraft lights.
 - ☐ **91.211** Supplemental oxygen.
 - ☐ **91.213** Inoperative instruments and equipment.
 - ☐ **91.215** ATC transponder and altitude reporting equipment and use.

- ☐ **91.217** Data correspondence between automatically reported pressure altitude data and the pilot's altitude reference.
- ☐ **91.219** Altitude alerting system or device: Turbojet-powered civil airplanes.
- ☐ **91.220** xxx
- ☐ **91.221** Traffic alert and collision avoidance system equipment and use.
- ☐ **91.223** Terrain awareness and warning system.
- ☐ **91.225** Automatic Dependent Surveillance-Broadcast (ADS-B) Out equipment and use.
- ☐ **91.227** Automatic Dependent Surveillance-Broadcast (ADS-B) Out equipment performance requirements.

Subpart D — Special Flight Operations

- ☐ **91.303** Aerobatic flight.
 - ☐ **91.305** Flight test areas.
 - ☐ **91.307** Parachutes and parachuting.
 - ☐ **91.309** Towing: Gliders and unpowered ultralight vehicles.
 - ☐ **91.311** Towing: Other than under § 91.309.
 - ☐ **91.313** Restricted category civil aircraft: Operating limitations.
 - ☐ **91.315** Limited category civil aircraft: Operating limitations.
 - ☐ **91.317** Provisionally certificated civil aircraft: Operating limitations.
 - ☐ **91.319** Aircraft having experimental certificates: Operating limitations.
 - ☐ **91.321** Carriage of candidates in elections.
 - ☐ **91.323** Increased maximum certificated weights for certain airplanes operated in Alaska.
 - ☐ **91.325** Primary category aircraft: Operating limitations.
 - ☐ **91.326** Exception to operating certain aircraft for the purposes of flight training, flightcrew member checking, or flightcrew member testing.
 - ☐ **91.327** Aircraft issued a special airworthiness certificate in the light-sport category: Operating limitations.
 - ☐ **91.331** Space support vehicle flights: Operating limitations.
- #### Subpart E — Maintenance, Preventive Maintenance, and Alterations
- ☐ **91.401** Applicability.
 - ☐ **91.403** General.
 - ☐ **91.405** Maintenance required.
 - ☐ **91.407** Operation after maintenance, preventive maintenance, rebuilding, or alteration.
 - ☐ **91.409** Inspections.
 - ☐ **91.411** Altimeter system and altitude reporting equipment tests and inspections.
 - ☐ **91.413** ATC transponder tests and inspections.
 - ☐ **91.415** Changes to aircraft inspection programs.
 - ☐ **91.417** Maintenance records.
 - ☐ **91.419** Transfer of maintenance records.
 - ☐ **91.421** Rebuilt engine maintenance records.

14 CFR part 93 — Special Air Traffic Rules

- **Special air traffic rules for named areas. Know which ones apply where you fly.**

- ☐ Subpart A — General
- ☐ Subpart D — Anchorage, Alaska, Terminal Area
- ☐ Subpart E — Flight Restrictions in the Vicinity of Niagara Falls, New York
- ☐ Subpart F — Valparaiso, Florida, Terminal Area
- ☐ Subpart G — Special Flight Rules in the Vicinity of Los Angeles International Airport
- ☐ Subpart J — Lorain County Regional Airport Traffic Rule
- ☐ Subpart K — High Density Traffic Airports
- ☐ Subpart M — Ketchikan International Airport Traffic Rule
- ☐ Subpart N — Pearson Field (Vancouver, WA) Airport Traffic Rule
- ☐ Subpart O — Special Flight Rules in the Vicinity of Luke AFB, AZ
- ☐ Subpart S — Allocation of Commuter and Air Carrier IFR Operations at High Density Traffic Airports
- ☐ Subpart T — Ronald Reagan Washington National Airport Traffic Rules
- ☐ Subpart U — Special Flight Rules in the Vicinity of Grand Canyon National Park, AZ
- ☐ Subpart V — Washington, DC Metropolitan Area Special Flight Rules Area
- ☐ Subpart W — New York Class B Airspace Hudson River and East River Exclusion Special Flight Rules Area
- ☐ Subpart X — Flight Restrictions in the Vicinity of Ronald Reagan Washington National Airport

49 CFR part 830 — Notification and Reporting of Aircraft Accidents or Incidents and Overdue Aircraft, and Preservation of Aircraft Wreckage, Mail, Cargo, and Records

Subpart A — General

- ☐ **830.1** Applicability.
- ☐ **830.2** Definitions.

Subpart B — Initial Notification of Aircraft Accidents, Incidents, and Overdue Aircraft

- ☐ **830.5** Immediate notification.
- ☐ **830.6** Information to be given in notification.

Subpart C — Preservation of Aircraft Wreckage, Mail, Cargo, and Records

- ☐ **830.10** Preservation of aircraft wreckage, mail, cargo, and records.

Subpart D — Reporting of Aircraft Accidents, Incidents, and Overdue Aircraft

- ☐ **830.15** Reports and statements to be filed.

► Each task shows the ACS's own reference line and RunupLab's pointers for where to start.

Area of Operation I. Preflight Preparation

PA.I.A Pilot Qualifications

ACS references: 14 CFR parts 61, 68, 91; AC 68-1; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25 ► **Start with:**

PHAK ch 1 p. 1-16 Pilot Certifications · **PHAK ch 17 p. 17-2** Obtaining a Medical Certificate · **14 CFR 61.3** Requirement for certificates, ratings, privileges, and authorizations. · **14 CFR 61.23** Medical certificates: Requirement and duration. · **14 CFR 61.31** Type rating requirements, additional training, and authorization requirements. · **14 CFR 61.51** Pilot logbooks. · **14 CFR 61.56** Flight review. · **14 CFR 61.57** Recent flight experience: Pilot in command. · **14 CFR 61.113** Private pilot privileges and limitations: Pilot in command. · **14 CFR part 68** Requirements for Operating Certain Small Aircraft Without a Medical Certificate · **AC 68-1A** BasicMed · **14 CFR 91.3** Responsibility and authority of the pilot in command. · **RMH ch 2** Personal Minimums

PA.I.B Airworthiness Requirements

ACS references: 14 CFR parts 39, 43, 91; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25 ► **Start with:**

PHAK ch 9 Flight Manuals and Other Documents · **PHAK ch 3 p. 3-2** Aircraft Design, Certification, and Airworthiness · **14 CFR 91.7** Civil aircraft airworthiness. · **14 CFR 91.9** Civil aircraft flight manual, marking, and placard requirements. · **14 CFR 91.203** Civil aircraft: Certifications required. · **14 CFR 91.205** Powered civil aircraft with standard U.S. airworthiness certificates: Instrument and equipment requirements. · **14 CFR 91.213** Inoperative instruments and equipment. · **14 CFR 91.403–91.417** 8 sections, from "General." to "Maintenance records." · **14 CFR part 39** Airworthiness Directives · **14 CFR 43.3** Persons authorized to perform maintenance, preventive maintenance, rebuilding, and alterations. · **14 CFR part 43 App. A** Major Alterations, Major Repairs, and Preventive Maintenance · **AC 91-67A** Minimum Equipment Requirements for General Aviation Operations Under 14 CFR Part 91, § 91.213

PA.I.C Weather Information

ACS references: 14 CFR part 91; AC 91-92; AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25, FAA-H-8083-28 ► **Start with:**

PHAK ch 12 Weather Theory · **PHAK ch 13** Aviation Weather Services · **AC 91-92** Pilot's Guide to a Preflight Briefing · **AIM 7-1** Meteorology · **AWH Part 1** Overview of the United States Aviation Weather Service Program and Information · **AWH Part 2** Weather Theory and Aviation Hazards · **AWH ch 24** Observations · **AWH ch 25** Analysis · **AWH ch 26** Advisories · **AWH ch 27** Forecasts · **AWH ch 28** Aviation Weather Tools · **14 CFR 91.103** Preflight action.

PA.I.D Cross-Country Flight Planning

ACS references: 14 CFR part 91; AIM; Chart Supplements; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; NOTAMs; VFR Navigation Charts ► **Start with:**

PHAK ch 16 Navigation · **AIM 5-1-3** Notice to Airmen (NOTAM) System · **AIM 5-1-5** Flight Plan · VFR Flights · **AIM 5-1-14** Closing VFR/DVFR Flight Plans · **AIM 5-6-13** Interception Procedures · **AIM 5-6-14** Interception Signals · **AIM 9-1** Types of Charts Available · **Charts** VFR Raster Charts · **Charts** Digital · Chart Supplement (d-CS) · **Charts** Aeronautical Chart Users' Guide · **14 CFR 91.103** Preflight action. · **14 CFR 91.119** Minimum safe altitudes: General. · **14 CFR 91.151** Fuel requirements for flight in VFR conditions. · **14 CFR 91.159** VFR cruising altitude or flight level. · **AC 91-78A** Use of Electronic Flight Bags

PA.I.E National Airspace System

ACS references: 14 CFR parts 71, 91, 93; AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; VFR Navigation Charts ► **Start with:**

PHAK ch 15 Airspace · **AIM ch 3** Airspace · **AIM 5-6** National Security and Interception Procedures · **14 CFR 91.126–91.135** 7 sections, from "Operating on or in the vicinity of an airport in Class G airspace." to "Operations in Class A airspace." · **14 CFR 91.137–91.145** 7 sections, from "Temporary flight restrictions in the vicinity of disaster/hazard areas." to "Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events." · **14 CFR 91.155** Basic VFR weather minimums. · **14 CFR 91.157** Special VFR weather minimums. · **14 CFR 91.215** ATC transponder and altitude reporting equipment and use. · **14 CFR 91.225** Automatic Dependent Surveillance-Broadcast (ADS-B) Out equipment and use. · **14 CFR part 71** Designation of Class A, B, C, D, and E Airspace Areas; Air Traffic Service Routes; and Reporting Points · **14 CFR part 93** Special Air Traffic Rules · **Charts** Aeronautical Chart Users' Guide

PA.I.F Performance and Limitations

ACS references: FAA-H-8083-1, FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ► **Start with:**

POH/AFM section 2 Limitations · **POH/AFM section 5** Performance · **POH/AFM section 6** Weight and Balance/Equipment List · **PHAK ch 10** Weight and Balance · **PHAK ch 11** Aircraft Performance · **PHAK ch 4** Principles of Flight · **PHAK ch 5** Aerodynamics of Flight · **W&B Handbook ch 2** Weight and Balance Theory · **W&B Handbook ch 5** Single-Engine Aircraft Weight and Balance Computations · **AWH App. C** Density Altitude Calculation · **14 CFR 91.9** Civil aircraft flight manual, marking, and placard requirements. · **14 CFR 91.103** Preflight action.

PA.I.G Operation of Systems

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM ► **Start with:**

POH/AFM section 7 Systems Description · **POH/AFM section 3** Emergency Procedures · **PHAK ch 6** Flight Controls · **PHAK ch 7** Aircraft Systems · **PHAK ch 8** Flight Instruments · **14 CFR 91.211** Supplemental oxygen.

PA.I.H Human Factors

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25 ► **Start with:**

PHAK ch 17 Aeromedical Factors · **PHAK ch 2** Aeronautical Decision-Making · **AIM 8-1** Fitness for Flight · **IFH ch 3** Human Factors · **RMH ch 8** Aeronautical Decision-Making in Flight · **14 CFR 91.17** Alcohol or drugs. · **14 CFR 61.15** Offenses involving alcohol or drugs. · **14 CFR 61.53** Prohibition on operations during medical deficiency.

Area of Operation II. Preflight Procedures

PA.II.A Preflight Assessment

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25, FAA-H-8083-28; POH/AFM ► **Start with:**

AFH ch 2 p. 2-1 Preflight Assessment of the Aircraft · **POH/AFM section 4** Normal Procedures · **PHAK ch 2** Aeronautical Decision-Making · **RMH ch 2** Personal Minimums · **RMH ch 3** Identifying Hazards & Associated Risks · **14 CFR 91.7** Civil aircraft airworthiness. · **14 CFR 91.103** Preflight action.

PA.II.B Flight Deck Management

ACS references: 14 CFR part 91; AC 120-71; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ► **Start with:**

AFH ch 1 p. 1-10 Safety Considerations · **AFH ch 2 p. 2-12** Risk and Resource Management · **POH/AFM section 4** Normal Procedures · **AC 120-71B** Standard Operating Procedures and Pilot Monitoring Duties for Flight Deck Crewmembers · **AC 91-78A** Use of Electronic Flight Bags · **14 CFR 91.105** Flight crewmembers at stations. · **14 CFR 91.107** Use of safety belts, shoulder harnesses, and child restraint systems.

PA.II.C Engine Starting

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ► **Start with:**

POH/AFM section 4 Normal Procedures · **AFH ch 2 p. 2-16** Engine Starting · **AFH ch 2 p. 2-16** Hand Propping · **PHAK ch 7** Aircraft Systems

PA.II.D Taxiing (ASEL, AMEL)

ACS references: AC 91-73; AIM; Chart Supplements; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ► **Start with:**

AFH ch 2 p. 2-18 Taxiing · **AFH ch 1 p. 1-10** Safety Considerations · **AC 91-73B** Parts 91 and 135 Single Pilot, Flight School Procedures During Taxi Operations · **AIM 2-3** Airport Marking Aids and Signs · **AIM 4-3-18** Taxiing · **AIM 4-3-19** Taxi During Low Visibility · **AIM 4-3-20** Standard Taxi Routes · **AIM 4-3-24** Use of Aircraft Lights · **PHAK ch 14 p. 14-5** Airport Markings and Signs · **PHAK App. C** Airport Signs and Markings · **Charts** Digital · Chart Supplement (d-CS) · **AIM 5-1-3** Notice to Airmen (NOTAM) System

PA.II.F Before Takeoff Check

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM ► **Start with:**

POH/AFM section 4 Normal Procedures · **AFH ch 2 p. 2-21** Before Takeoff Check · **PHAK ch 7** Aircraft Systems

Area of Operation III. Airport and Seaplane Base Operations

PA.III.A Communications, Light Signals, and Runway Lighting Systems

ACS references: 14 CFR part 91; AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25 ► **Start with:**

AIM 4-1-13 Automatic Terminal Information Service (ATIS) · **AIM 4-1-17** Radar Assistance to VFR Aircraft · **AIM 4-1-20** Transponder and ADS-B Out Operation · **AIM 4-2** Radio Communications Phraseology and Techniques · **AIM 4-3-13** Traffic Control Light Signals · **AIM 6-4** Two-way Radio Communications Failure · **AIM 2-1-6** Runway Status Light (RWSL) System · **AIM 7-7-2** Aircraft Accident and Incident Reporting · **PHAK ch 14 p. 14-22** Radio Communications · **PHAK ch 14 p. 14-24** Air Traffic Control (ATC) Services · **14 CFR 91.125** ATC light signals. · **14 CFR 91.215** ATC transponder and altitude reporting equipment and use. · **49 CFR part 830** Notification and Reporting of Aircraft Accidents or Incidents and Overdue Aircraft, and Preservation of Aircraft Wreckage, Mail, Cargo, and Records

PA.III.B Traffic Patterns

ACS references: 14 CFR part 91; AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25 ▶ **Start with:**

AFH ch 8 Airport Traffic Patterns · **AIM 4-3-2** Airports with an Operating Control Tower · **AIM 4-3-3** Traffic Patterns · **AIM 4-3-4** Visual Indicators at Airports Without an Operating Control Tower · **AIM 4-1-9** Traffic Advisory Practices at Airports Without Operating Control Towers · **AIM 4-3-27** Operations at Uncontrolled Airports With Automated Surface Observing System (ASOS)/Automated Weather Observing System (AWOS) · **PHAK ch 14 p. 14-20** Traffic Patterns · **14 CFR 91.113** Right-of-way rules: Except water operations. · **14 CFR 91.126–91.130** 4 sections, from “Operating on or in the vicinity of an airport in Class G airspace.” to “Operations in Class C airspace.” · **AC 90-66C** Non-Towered Airport Flight Operations

Area of Operation IV. Takeoffs, Landings, and Go-Arounds

PA.IV.A Normal Takeoff and Climb

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 6 Takeoffs and Departure Climbs · **POH/AFM section 4** Normal Procedures · **POH/AFM section 5** Performance · **PHAK ch 11** Aircraft Performance · **AIM 7-4** Wake Turbulence

PA.IV.B Normal Approach and Landing

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 9 p. 9-2 Normal Approach and Landing · **AFH ch 9 p. 9-15** Crosswind Approach and Landing · **AFH ch 4** Energy Management: Mastering Altitude and Airspeed Control · **POH/AFM section 4** Normal Procedures · **POH/AFM section 5** Performance · **AIM 2-1-2** Visual Glideslope Indicators · **AIM 7-4** Wake Turbulence

PA.IV.C Soft-Field Takeoff and Climb (ASEL)

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 6 Takeoffs and Departure Climbs · **POH/AFM section 4** Normal Procedures · **POH/AFM section 5** Performance · **PHAK ch 5** Aerodynamics of Flight

PA.IV.D Soft-Field Approach and Landing (ASEL)

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 9 p. 9-23 Soft-Field Approach and Landing · **POH/AFM section 4** Normal Procedures · **POH/AFM section 5** Performance

PA.IV.E Short-Field Takeoff and Maximum Performance Climb (ASEL, AMEL)

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 6 Takeoffs and Departure Climbs · **POH/AFM section 4** Normal Procedures · **POH/AFM section 5** Performance · **PHAK ch 11** Aircraft Performance

PA.IV.F Short-Field Approach and Landing (ASEL, AMEL)

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 9 p. 9-20 Short-Field Approach and Landing · **POH/AFM section 4** Normal Procedures · **POH/AFM section 5** Performance · **PHAK ch 11** Aircraft Performance

PA.IV.M Forward Slip to a Landing (ASEL, ASES)

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 9 p. 9-12 Intentional Slips · **AFH ch 4** Energy Management: Mastering Altitude and Airspeed Control · **POH/AFM section 2** Limitations

PA.IV.N Go-Around/Rejected Landing

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-23, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 9 p. 9-10 Go-Arounds (Rejected Landings) · **AFH ch 4** Energy Management: Mastering Altitude and Airspeed Control · **POH/AFM section 4** Normal Procedures

Area of Operation V. Performance Maneuvers and Ground Reference Maneuvers

PA.V.A Steep Turns

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 10 Performance Maneuvers · **PHAK ch 5** Aerodynamics of Flight · **POH/AFM section 2** Limitations

PA.V.B Ground Reference Maneuvers

ACS references: 14 CFR part 61; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25 ▶ **Start with:**

AFH ch 7 Ground Reference Maneuvers · **PHAK ch 5** Aerodynamics of Flight · **14 CFR 91.119** Minimum safe altitudes: General. · **14 CFR 61.107** Flight proficiency.

Area of Operation VI. Navigation

PA.VI.A Pilotage and Dead Reckoning

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; VFR Navigation Charts ▶ **Start with:**

PHAK ch 16 p. 16-12 Pilotage · **PHAK ch 16 p. 16-13** Dead Reckoning · **PHAK ch 16 p. 16-11** Basic Calculations · **PHAK ch 8** Flight Instruments · **Charts** VFR Raster Charts · **Charts** Aeronautical Chart Users' Guide · **14 CFR 91.159** VFR cruising altitude or flight level.

PA.VI.B Navigation Systems and Radar Services

ACS references: AC 91-78; AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25 ▶ **Start with:**

PHAK ch 16 p. 16-22 Ground-Based Navigation · **AIM 1-1-3** VHF Omni-directional Range (VOR) · **AIM 1-1-4** VOR Receiver Check · **AIM 1-1-17** Global Positioning System (GPS) · **AIM 1-2** Performance-Based Navigation (PBN) and Area Navigation (RNAV) · **AIM 4-1-17** Radar Assistance to VFR Aircraft · **AIM 4-1-18** Terminal Radar Services for VFR Aircraft · **AIM 4-1-20** Transponder and ADS-B Out Operation · **AIM 4-5-7** Automatic Dependent Surveillance-Broadcast (ADS-B) Services · **14 CFR 91.215** ATC transponder and altitude reporting equipment and use. · **14 CFR 91.225** Automatic Dependent Surveillance-Broadcast (ADS-B) Out equipment and use. · **AC 91-78A** Use of Electronic Flight Bags · **IFH ch 9** Navigation Systems

PA.VI.C Diversion

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; VFR Navigation Charts ▶ **Start with:**

PHAK ch 16 p. 16-34 Flight Diversion · **RMH ch 8** Aeronautical Decision-Making in Flight · **AIM 4-1-17** Radar Assistance to VFR Aircraft

PA.VI.D Lost Procedures

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; VFR Navigation Charts ▶ **Start with:**

PHAK ch 16 p. 16-34 Lost Procedures · **AIM 6-2-1** Radar Service for VFR Aircraft in Difficulty · **AIM 6-3-2** Obtaining Emergency Assistance · **AIM 4-1-17** Radar Assistance to VFR Aircraft

Area of Operation VII. Slow Flight and Stalls

PA.VII.A Maneuvering During Slow Flight

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 5 Maintaining Aircraft Control: Upset Prevention and Recovery Training · **PHAK ch 5** Aerodynamics of Flight · **POH/AFM section 2** Limitations

PA.VII.B Power-Off Stalls

ACS references: AC 61-67; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 5 Maintaining Aircraft Control: Upset Prevention and Recovery Training · **PHAK ch 5** Aerodynamics of Flight · **AC 61-67C** Stall and Spin Awareness Training with Change 1 & 2 · **POH/AFM section 2** Limitations · **POH/AFM section 4** Normal Procedures

PA.VII.C Power-On Stalls

ACS references: AC 61-67; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 5 Maintaining Aircraft Control: Upset Prevention and Recovery Training · **PHAK ch 5** Aerodynamics of Flight · **AC 61-67C** Stall and Spin Awareness Training with Change 1 & 2 · **POH/AFM section 2** Limitations · **POH/AFM section 4** Normal Procedures

PA.VII.D Spin Awareness

ACS references: AC 61-67; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 5 Maintaining Aircraft Control: Upset Prevention and Recovery Training · **PHAK ch 5** Aerodynamics of Flight · **AC 61-67C** Stall and Spin Awareness Training with Change 1 & 2 · **POH/AFM section 2** Limitations · **POH/AFM section 3** Emergency Procedures

Area of Operation VIII. Basic Instrument Maneuvers

PA.VIII.A Straight-and-Level Flight

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-15, FAA-H-8083-25 ▶ **Start with:**

IFH ch 6 sec I Airplane Attitude Instrument Flying Using Analog Instrumentation · **IFH ch 6 sec II** Airplane Attitude Instrument Flying Using an Electronic Flight Display · **IFH ch 7 sec I p. 7-2** Straight-and-Level Flight · **IFH ch 7 sec II p. 7-34** Straight-and-Level Flight · **PHAK ch 8** Flight Instruments

PA.VIII.B Constant Airspeed Climbs

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-15, FAA-H-8083-25 ▶ **Start with:**

IFH ch 6 sec I Airplane Attitude Instrument Flying Using Analog Instrumentation · **IFH ch 6 sec II** Airplane Attitude Instrument Flying Using an Electronic Flight Display · **IFH ch 7 sec I p. 7-14** Straight Climbs and Descents · **IFH ch 7 sec II p. 7-46** Straight Climbs and Descents · **PHAK ch 8** Flight Instruments

PA.VIII.C Constant Airspeed Descents

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-15, FAA-H-8083-25 ▶ **Start with:**

IFH ch 6 sec I Airplane Attitude Instrument Flying Using Analog Instrumentation · **IFH ch 6 sec II** Airplane Attitude Instrument Flying Using an Electronic Flight Display · **IFH ch 7 sec I p. 7-14** Straight Climbs and Descents · **IFH ch 7 sec II p. 7-46** Straight Climbs and Descents · **PHAK ch 8** Flight Instruments

PA.VIII.D Turns to Headings

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-15, FAA-H-8083-25 ▶ **Start with:**

IFH ch 6 sec I Airplane Attitude Instrument Flying Using Analog Instrumentation · **IFH ch 6 sec II** Airplane Attitude Instrument Flying Using an Electronic Flight Display · **IFH ch 7 sec I p. 7-19** Turns · **IFH ch 7 sec II p. 7-51** Turns · **PHAK ch 8** Flight Instruments

PA.VIII.E Recovery from Unusual Flight Attitudes

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-15, FAA-H-8083-25; POH/Flight Manual ▶ **Start with:**

IFH ch 7 sec I p. 7-26 Unusual Attitudes and Recoveries · **IFH ch 6 sec II** Airplane Attitude Instrument Flying Using an Electronic Flight Display · **IFH ch 3** Human Factors · **AFH ch 5** Maintaining Aircraft Control: Upset Prevention and Recovery Training · **AFH ch 18 p. 18-17** Inadvertent VFR Flight Into IMC · **POH/AFM section 3** Emergency Procedures

PA.VIII.F Radio Communications, Navigation Systems/Facilities, and Radar Services

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-15, FAA-H-8083-25 ▶ **Start with:**

IFH ch 2 The Air Traffic Control System · **IFH ch 9** Navigation Systems · **AIM 4-1** Services Available to Pilots · **AIM 4-2** Radio Communications Phraseology and Techniques · **AIM 6-2-1** Radar Service for VFR Aircraft in Difficulty · **PHAK ch 16 p. 16-22** Ground-Based Navigation

Area of Operation IX. Emergency Operations

PA.IX.A Emergency Descent

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 18 p. 18-8 Emergency Descents · **POH/AFM section 3** Emergency Procedures · **POH/AFM section 2** Limitations

PA.IX.B Emergency Approach and Landing (Simulated) (ASEL, ASES)

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 18 p. 18-1 Emergency Landings · **AFH ch 9 p. 9-28** Emergency Approaches and Landings (Simulated) · **POH/AFM section 3** Emergency Procedures · **AIM 6-2-4** Emergency Locator Transmitter (ELT) · **AIM 6-3** Distress and Urgency Procedures · **14 CFR 91.207** Emergency locator transmitters.

PA.IX.C Systems and Equipment Malfunctions

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 18 p. 18-13 System Malfunctions · **AFH ch 18 p. 18-9** In-Flight Fire · **AFH ch 18 p. 18-17** Door Opening In-Flight · **POH/AFM section 3** Emergency Procedures · **PHAK ch 7** Aircraft Systems · **PHAK ch 8** Flight Instruments · **IFH ch 11** Emergency Operations

PA.IX.D Emergency Equipment and Survival Gear

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

POH/AFM section 3 Emergency Procedures · **POH/AFM section 9** Supplements · **AFH ch 18 p. 18-22** Emergency Response Systems · **AIM 6-2-4** Emergency Locator Transmitter (ELT) · **14 CFR 91.207** Emergency locator transmitters.

Area of Operation XI. Night Operations

PA.XI.A Night Operations

ACS references: AIM; FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 11 Night Operations · **PHAK ch 17 p. 17-19** Vision in Flight · **AIM 2-1** Airport Lighting Aids · **AIM 2-2** Air Navigation and Obstruction Lighting · **AIM 8-1-6** Vision in Flight · **14 CFR 91.205** Powered civil aircraft with standard U.S. airworthiness certificates: Instrument and equipment requirements. · **14 CFR 91.209** Aircraft lights. · **14 CFR 61.57** Recent flight experience: Pilot in command. · **14 CFR 1.1** General definitions.

Area of Operation XII. Postflight Procedures

PA.XII.A After Landing, Parking, and Securing (ASEL, AMEL)

ACS references: FAA-H-8083-2, FAA-H-8083-3, FAA-H-8083-25; POH/AFM ▶ **Start with:**

AFH ch 2 p. 2-23 Parking · **AFH ch 2 p. 2-23** Engine Shutdown · **AFH ch 2 p. 2-23** Post-Flight · **POH/AFM section 4** Normal Procedures · **POH/AFM section 8** Handling, Service, and Maintenance · **14 CFR 91.213** Inoperative instruments and equipment. · **14 CFR 91.405** Maintenance required.

6 · Instructor sign-off **TECHNIQUE**

► Your instructor initials each Area of Operation when you are ready for it.

Area of Operation	Knowledge and risk management — initials, date	Skills — initials, date
I. Preflight Preparation		
II. Preflight Procedures		
III. Airport and Seaplane Base Operations		
IV. Takeoffs, Landings, and Go-Arounds		
V. Performance Maneuvers and Ground Reference Maneuvers		
VI. Navigation		
VII. Slow Flight and Stalls		
VIII. Basic Instrument Maneuvers		
IX. Emergency Operations		
XI. Night Operations		
XII. Postflight Procedures		

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