Objectives	 The Student Will Understand the Elements Related to Federal Aviation Regulations and Publications. 				
Elements	 Fars Part 1, 61, 91 & NTSB Part 830 Aviation Related Publications 				
Schedule	 Review lesson objectives Review lesson material Conclusion & Review 				
Equipment	White Board / MarkersReferences				
CFI Actions	 Present lesson Use teaching aids Ask/ answer questions 				
Student Actions	 Participate in discussion Take notes Ask / answer questions Chair Fly at home 				
Completion Standards	 The student will understand the purpose and content of the fars and other aviation publications 				

Additional Notes:	 	 	

References: FAA-H-8083-3, FAA-H-8083-25

CE = Common Error

Introduction

Overview

Review objectives / Elements

What

The Federal Aviation Regulations (FARs) and publications relevant to every pilot.

Why

This will provide a better understanding of these publications and their use in flying

How

FARS 1, 61, 91 & NTSB Part 830

Part 1 - Definitions & Abbreviations

Provides general definitions as well as abbreviations and symbols

Part 61 – Certification: Pilots, Flight Instructors, & Ground Instructors

- The requirements for issuing pilot, flight instructor, and ground instructor certificates and ratings
- The conditions under which those certificates and ratings are necessary
- Privileges and limitations of those certificates and ratings

Sub-parts

- Aircraft Ratings and Pilot Authorization
- Student Pilots
- Recreational Pilots
- Private Pilots
- Commercial Pilots
- Airline Transport Pilots
- Flight Instructors
- Ground Instructors
- Sport Pilots

Part 91 – General Operating & Flight Rules

Describes rules governing the operation of aircraft

Sub-parts

- General
- Flight Rules (General, Visual, Instrument)
- Equipment, Instrument, and Certificate Requirements
- Special Flight Operations

- Maintenance, Preventive Maintenance, and Alterations
- Large and Turbine Powered Multi-Engine Airplanes and Fractional Ownership Program Aircraft
- Additional Equipment and Operating Requirements for Large and Transport Category Aircraft
- Foreign Aircraft Operations and operations of US Registry Civil Aircraft Outside of the US; and rules Governing Persons on Board Such Aircraft
- Operating Noise Limits
- Waivers
- Fractional Ownership Operations

NTSB (National Transportation Safety Board) Part 830

- NTSB is a function within the US DOT (like the FAA) that has rule-making authority similar to the FAA
 - o It contains numerous forms and paragraphs, including
 - ¹Applicability; ²Definitions; ³Immediate Notification; ⁴Information to be given in Notification;
 ⁵Preservation of Aircraft Wreckage, Mail, Cargo, and Records; ⁶Reports/Statements to be
 Filed

Aviation Related Publications

Chart Supplement - Formerly called the Airport / Facility Directory (A/FD)

- A Civil Flight Information Publication published / distributed every 8 weeks by NACO
 - NACO National Aeronautical Charting Office, a division of the FAA
 - It is a directory of all airports, seaplane bases, and heliports open to the public; communication data; nav facilities; and certain special notices and procedures
- A directory is published for each of the seven geographical districts (NW, SW, NC, SC, EC, NE, SE)
- The Chart Supplement is a vital publication for cross country planning
 - All pertinent information regarding airports, navaids, FSS contact information, etc. is contained in the Chart Supplement

Aeronautical Information Manual (AIM)

- Provides pilots with a HUGE amount of flight information and ATC procedures in the US
 - o The AIM has a comprehensive and useful index to help find topics of interest
 - Issued as a systematic means for issuing non-regulatory material of interest to the aviation public
 - Unless incorporated into a regulation by reference, the contents of an AC are not binding
- Provide guidance / information on a subject or show an FAA acceptable method for complying with a FAR



FAA Advisory Circular (AC)

• Issued in a # system of general subject matter areas corresponding with the subjects in the FARS:

00 – General **140** – Schools and Other Certificated

Agencies

10 – Procedural Rules **150** – Airport Noise Compatibility Planning

20 – Aircraft **170** – Navigation Facilities

60 – Airmen **180** – Administrative Regulations

70 – Airspace **190** – Withholding Security Information

90 – Air Traffic and General 210 – Flight Info (Aeronautical charts,

Operating Rules doesn't relate to the FARs)

120 – Air Carriers, Air Travel Clubs, and Operators for Comp/Hire: Certification and Ops

NoticeS to Airmissions (NOTAMs)

- Disseminates time critical aeronautical information, which is either temporary in nature or is not sufficiently known in advance to permit publication on aeronautical charts or in other publications
 - o Information that could affect the decision to make a flight

NOTAM (D)

- Usually regarding airport or navigation facilities
- Includes such information as airport or primary runway closures, changes in the status of navaids,
 ILSs, radar service availability, and other information essential to planned en route, terminal, or
 landing operations
- Information is disseminated for all NAV facilities that are part of the National Airspace System, civil public-use airports listed in the Chart Supplement
- Attached to hourly weather reports and are available at FSS (1-800-WXBRIEF)

Flight Data Center (FDC) NOTAMs

- Flight information that is regulatory in nature and includes amendments to published IAPs, IFR charts, procedures, and airspace usage
- Also, advertises <u>Temporary Flight Restrictions</u> (TFRs) caused by things such as natural disasters or large-scale public events that may generate a congestion of air traffic over a site
- FSSs are responsible for maintaining a file of current, unpublished FDC NOTAMS concerning conditions within 400 NM of their facilities
- FDC info concerning conditions beyond 400 NM from the FSS is given only when requested

Pointer NOTAMs

- Issued by FSS to highlight or point out another NOTAM
- Example: to point out an FDC NOTAM

• Assist users in cross-referencing that may not be found under an airport or NAVAID identifier

Military NOTAMs

Pertain to U.S. Air Force, Army, Marine, and Navy navigational aids/airports that are part of the NAS
 SAA NOTAMs

- Issued when Special Activity Airspace will be active outside the published scheduled times
- Includes special use airspace (restricted, MOA, warning areas, & alert area airspace), and instrument
 and visual military training routes, aerial refueling tracks and anchors

Notices to Airmen Publication (NTAP)

- Issued every 28 days
 - Once published, NOTAMs <u>are not</u> provided during pilot weather briefings unless specifically requested by the pilot
- The number of the last FDC NOTAM in the NTAP is shown on the front to help update the listing with any that may have been issued between the cut-off date and the date the pub is received
 - All information is carried until it expires, is canceled, or is published in other publications
- All new NOTAMS entered, excluding FDC NOTAMs, will be published only if
 the info is expected to remain in effect for at least 7 days after the effective date of the NTAP

Airman Certification Standards (ACS)

- Latest update effective 6/11/2018
- FARs specify areas in which knowledge, risk management, and skill must be shown before the issuance of a certificate
 - The ACS integrates the elements in 14 CFR part 61 for each airman certificate or rating.
 - FARS provide flexibility to permit the FAA to publish Airman Certification Standards (ACS) with the tasks pilots must demonstrate skill in
- The ACS consists of Areas of Operation arranged in a logical sequence, beginning with Preflight Preparation and ending with Postflight Procedures.
- Each Area of Operation includes Tasks appropriate to that Area of Operation.
 - Each Task begins with an **Objective** stating what the applicant should know, consider, and/or do.
 - The ACS then lists the aeronautical knowledge, risk management, and skill elements relevant to the specific Task, along with the conditions and standards for acceptable performance.

Instrument

Rating

Airplane

The ACS uses Notes to emphasize special considerations.



Private Pilot

Airplane

Current ACS

• Private Pilot (ASEL, AMEL, ASES, AMES), Instrument Rating & Commercial Pilot (ASEL, AMEL, ASES, AMES).

Practical Test Standards (PTS)

- FARs specify areas in which knowledge/skill must be shown before the issuance of a certificate
 - FARS provide flexibility to permit the FAA to publish Practical Test Standards (PTS) with the tasks pilots must demonstrate skill in

Current PTS

- Flight Instructor, Flight Instructor Instrument, & Type Rating
 - o Each of these will be replaced by the ACS for each certificate or rating soon.

Pilot's Operating Handbook (POH)

• The POH describes the specific airplane and its operation

Sections include:

- General Description of the Airplane
- Limitations Description of operating limits
- **Emergency Procedures** What to do in each emergency situation
- Normal Procedures Checklists
- **Performance** Graphs and tables relating to airplane capabilities
- Weight and Balance Equipment list and airplane's empty weight
- Airplane and Systems Description Description of the airplane's
- Handling, Preventative and Corrective Maintenance Explanation of and how
- Supplements Description of optional equipment or upgrades



what and when

Conclusion & Review

Review the Main Lesson Points review

- 1. Availability and method of revision of 14 CFR parts 1, 61, 91, and NTSB part 830
 - 1. Purpose.
 - 2. General Content.
- 2. Availability of flight information publications, advisory circulars, airman certification standards, practical test standards, pilot operating handbooks, and FAA-approved airplane flight manuals
 - 1. Availability
 - 2. Purpose
 - 3. General Content