



COMPUTER TRAINING SYSTEMS

IS-BAO SUBJECTS SYLLABUS



IS-BAO
TRAINING

Each customer's General Subjects training program consists of selections from the list below. It is tailored to each Each IS-BAO training program consists of customer-selected subjects from the list below. Each course is a comprehensive learning program covering the listed topics in each area with individual course examinations drawn from all assigned material testing student retention. Subjects include a mixture of interactive tutorials and text-based lessons, culminating in a final exam. Each course also includes administrator access to online record keeping in order to track and monitor individual progress. All subjects are designed to assist in meeting the training requirements of IS-BAO certification.

NOTE - Also available in RW package

14 CFR PART 1-97 AND 49 CFR PART 830 - FW

Lessons

- 14 CFR Part 91, Subpart A
- 14 CFR Part 91, Subpart F
- 14 CFR Part 91, Subpart G
- 14 CFR Part 91, Subparts C, D, and E
- 14 CFR Part 91.103-153, Subpart B
- 14 CFR Part 91.155-187, Subpart B
- 14 CFR Parts 1, 39, 43, and 47
- 14 CFR Parts 61 and 67
- 14 CFR Parts 95 and 97
- 49 CFR Part 830

ADS-B OVERVIEW

Tutorial - ADS-B

- Overview and System Description
- ADS-B Operations
- ADS-B Procedures
- ADS-B In Services
- ADS-B In-Trail Procedures
- CAVS
- Human Factors in ADS-B

Lessons

- Overview and System Description
- ADS-B Operations
- ADS-B Procedures
- ADS-B In Services
- ADS-B In-Trail Procedures
- CAVS Using ADS-B IN

AERONAUTICAL INFORMATION MANUAL - FW

Lessons

- Chapter 1.1-1.1.10 - Navigational Aids
- Chapter 1.1.11-1.2.3 - Navigational Aids
- Chapter 2 - Aeronautical Lighting and Airport
- Visual Aids
- Chapter 3 - Airspace
- Chapter 4.1 - Services Available to Pilots
- Chapter 4.2 - Radio Communications
- Chapter 4.3 - Airport Operations
- Chapter 4.4 - Clearances
- Chapter 5.1-5.2 - Preflight and Departure
- Chapter 5.3 - En Route
- Chapter 5.4-5.6 - Approach
- Chapter 6 - Emergency Procedures
- Chapter 7.1-7.2 - Weather and Altimeter Settings
- Chapter 7.3-7.6 - Turbulence and Flight Hazards
- Chapter 8 - Medical Facts for Pilots

AVIATION SAFETY ACTION PROGRAM (ASAP) OVERVIEW Tutorial - Aviation Safety Action Program

- ASAP Overview
- ASAP Process
- How to Submit a Report

Lessons

- Aviation Safety Action Program (ASAP) Overview

CLASSES OF FIRE AND PORTABLE FIRE EXTINGUISHERS Tutorial - Portable Fire Extinguishers

- Overview and Classes of Fire
- Types of Fire Extinguishers
- Location and Use of Fire Extinguishers
- Risks and Hazards of Fire

Tutorial - Lithium Battery Fires

- Lithium Battery Fires

Lessons

- Classes of Fire and Types of Extinguishers
- Location, Use, Risks, and Hazards
- Lithium Battery Fires

CONTROLLED FLIGHT INTO TERRAIN AVOIDANCE (CFIT, TAWS, AND ALAR) - (FW)

Tutorial - CFIT and ALAR

- Introduction to CFIT
- Combating CFIT
- Approach and Landing Accident Reduction (ALAR)

Tutorial - TAWS

- Introduction to TAWS
- TAWS Equipment
- Cautions and Warnings
- Databases

Tutorial - Case Study

- Case Study

Lessons

- Controlled Flight into Terrain (CFIT)
- Approach and Landing Accident Reduction (ALAR)
- Terrain Awareness and Warning System (TAWS)

CORPORATE AVIATION SECURITY

Tutorial - Corporate Aviation Security

- Overview and Responsibilities
- Assessing Threats
- Prevention Measures
- Threat Response

Lessons

- Corporate Security

CRM-ADM - FIXED WING

Tutorial - CRM - FW

- Crew Resource Management
- Authority of the PIC
- CRM Skills
- Communication Processes
- Building and Maintaining a Flight Team
- Workload and Time Management
- Situational Awareness
- Fatigue: Effects and Reduction Strategies
- Stress: Effects and Reduction Strategies

Tutorial - ADM - FW

- What is ADM?
- Risk Management
- Operational Pitfalls
- Applying ADM

Tutorial - Case Study

- Case Study

Lessons

- Authority of the Pilot-in-Command
- Communication
- Team Building
- Workload and Time Management
- Situational Awareness
- Fatigue - Effects and Reduction
- Stress - Effects and Reduction
- Aeronautical Decision Making
- Risks and Operational Pitfalls
- Threat and Error Management

ELECTRONIC FLIGHT BAG (EFB)

Tutorial - Electronic Flight Bag (EFB)

- Introduction to EFBs
- Operation of the EFB
- Abnormal and Emergency Procedures

Lessons

- Electronic Flight Bag (EFB)

HAZMAT WILL CARRY OR WILL NOT CARRY - FLIGHT CREW AND LOAD PLANNERS

Tutorial - Hazardous Materials Awareness

- General Philosophy
- Limitations
- Labels and Markings
- Recognition of Undeclared Hazardous Materials
- Emergency Procedures
- Hazardous Materials Incident and Discrepancy Reporting

Tutorial - Provisions for Passengers and Crew

- Provisions for Passengers and Crew

Tutorial - List of Hazardous Materials

- List of Hazardous Materials

Tutorial - Storage and Loading Procedures

- Storage and Loading
- Information to the Pilot in Command

Tutorial - Security Awareness

- Introduction and Regulatory Requirements
- Recognizing and Preventing Security Threats
- Responding to Security Threats

Tutorial - Loading Procedures Walk-Through

- Loading Procedures Walk-Through

Lessons

- General Philosophy
- Limitations
- Labeling and Marking
- Recognition of Undeclared Hazardous Materials
- Emergency Procedures
- Hazardous Materials Incident and Discrepancy Reporting
- Provisions for Passenger and Crew
- List of Hazardous Materials
- Storage and Loading Procedures
- Pilot's Notification
- Security Awareness

LOWER THAN STANDARD TAKEOFF MINIMUMS

Lessons

- Regulations
- RVR Requirements
- Use of Charts
- Runways and Taxiways
- HUD Takeoff Guidance

MINIMUM EQUIPMENT LIST (MEL)

Tutorial - Minimum Equipment List (MEL)

- MEL Overview
- MEL Contents
- MEL Procedures

Lessons

- Minimum Equipment List (MEL)

PHYSIOLOGY AND FIRST AID (FW)

Lessons

- Decompression Sickness
- CPR
- AED
- First Aid - Bleeding, Wounds, and Burns
- First Aid - Poison, Bites, and Stings
- First Aid - Serious Illnesses and Injuries
- Hyperventilation
- Hypoxia
- Spatial Disorientation
- Trapped Gases

PERFORMANCE-BASED COMMUNICATION AND SURVEILLANCE (PBCS)

Tutorial - ADS-C Overview

- ADS-C Overview

Tutorial - CPDLC - U.S. Domestic Operations

- CPDLC - U.S. Domestic Operations

Tutorial - CPDLC Overview

- CPDLC Overview

Tutorial - PBCS Overview

- PBCS Overview, Approvals, and Authorizations

Lessons

- PBCS
- CPDLC - Domestic Operations
- CPDLC - Oceanic & Remote
- ADS-C

PERFORMANCE-BASED NAVIGATION (PBN)

Tutorial - PBN Overview

- Introduction to Performance-Based Navigation
- Aircraft and Operational Approvals
- RNAV Operations, U.S. Terminal and En Route Area
- RNP Operations, Terminal, En Route, and Approach

Tutorial - RNP APCH and Baro-VNAV

- RNP APCH and Baro-VNAV

Tutorial - B-RNAV and P-RNAV

- Guidance for B-RNAV and P-RNAV in European Airspace

Tutorial - RNP AR

- RNP Procedures with AR

Lessons

- PBN Overview (RNP and RNAV)
- RNP APCH and Baro-VNAV
- B-RNAV and P-RNAV
- RNP AR

REDUCED VERTICAL SEPARATION MINIMUM (RVSM)

Tutorial - RVSM

- RVSM and Requirements
- RVSM Procedures
- Turbulence, MWA, Communications, and Contingency Actions
- The Effect of RVSM on TCAS

Tutorial - Oceanic Contingency

- Procedures and SLOP
- Oceanic Contingency Procedures and SLOP

Lessons

- Reduced Vertical Separation Minimum (RVSM)

SAFETY MANAGEMENT SYSTEM (SMS)

Tutorial - Safety Management Fundamentals

- Introduction to Safety Management Systems
- Accident Theory

Tutorial - Safety Culture

- Safety Culture

Tutorial - Safety Management System Components

- Safety Policy and Objectives
- Safety Risk Management
- Safety Assurance
- Safety Promotion

Tutorial - Internal Evaluation Programs

- Elements of an IEP
- IEP Documentation

Lessons

- Safety Management Fundamentals
- Safety Culture
- Safety Management System Components
- Internal Evaluation Program

WINTER OPERATIONS (FW)

Tutorial - Winter Operations

- Background and Regulations
- In-flight Icing Conditions
- Ground Icing Conditions and Deicing Procedures
- Fluid Types and Holdover Tables
- Application Guidelines
- Runway Contamination
- Cold Temperature Airports

Lessons

- Regulations and Definitions
- Procedures and Holdover Tables
- Effects of Icing on Flight
- Contaminated Runways
- Cold Temperature Airports