



## COMPUTER TRAINING SYSTEMS



IS-BAO  
**TRAINING**

### IS-BAO SUBJECTS SYLLABUS

Each customer's General Subjects training program consists of selections from the list below. It is tailored to 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

#### 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

#### 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

#### 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

## **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**

### **Tutorial - Label Identification**

- Introduction
- Class 1
- Class 2
- Class 3
- Class 4
- Class 5
- Class 6
- Class 7
- Class 8
- Class 9
- Miscellaneous Labels, Placards, and Markings

### **Tutorial - Security Awareness**

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

### **Lessons**

- General Philosophy
- Limitations
- List of Hazardous Materials

- Recognition of Undeclared Hazardous Materials
- Storage and Loading Procedures
- Pilot's Notification
- Provisions for Passengers and Crew
- Emergency Procedures
- Labeling and Marking
- Security Awareness

## **INTRODUCTION TO SAFETY MANAGEMENT SYSTEM (SMS)**

### **Tutorial - SMS**

- SMS Fundamentals
- Safety Culture: Theory and Practice
- Safety Policy and Objectives
- Safety Risk Management
- Safety Assurance
- Safety Training and Promotion

### **Lessons**

- SMS Fundamentals

## **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)

## **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