



#### **14 CFR PART 125 INDOCTRINATION TRAINING SYLLABUS**

Each Part 125 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 pilot progress. All subjects are designed to satisfy the initial and recurrent training requirements of 14 CFR 125.287 as well as other aviation-related topics.

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

#### 14 CFR PART 110

#### Lessons

Definitions

#### 14 CFR PART 119

### Lessons

Subparts A and B Subpart C - 119.33-53 Subpart C - 119.55-69

#### 14 CFR PART 125

#### Lessons

Subpart A-D - Certification Rules and Requirements Subpart C-E - Manual, Airplane, and Airworthiness Requirements Subpart F - Instrument and Equipment Requirements Subpart G-I - Maintenance and Crewmember Requirements Subpart J - Flight Operations Subpart K-L - Flight Release Rules and Records

#### 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 - Navigational Aids Chapter 1.2 - Performance Based Navigation Chapter 2 - Aeronautical Lighting and Visual Aids Chapter 3 - Airspace Chapter 4.1 - ATC Services Available to Pilots and Radio Phraseology Chapter 4.2 - Radio Communications Chapter 4.3 - Airport Operations Chapter 4.4 - ATC Clearances and Aircraft Separation Chapter 5.1-5.2 - Air Traffic Procedures Chapter 5.3-5.4 - ATC En route and Arrival Procedures Chapter 5.6 - National Security Chapter 6 - Emergency Procedures Chapter 7.1 - Meteorology Chapter 7.3-7.6 - Turbulence and Flight Hazards Chapter 8 - Medical Facts for Pilots

#### **AERONAV CHARTS**

#### Lessons

Area Charts Departure and Arrival Charts Enroute Low Altitude Charts Enroute High Altitude Charts Approach Charts

#### AIRSPACE OVERVIEW

Tutorial - Airspace Overview Class A Class B Class C Class D Class E Class G Special Use Areas Other Airspace Areas Air Defense Identification Zones Charting Lessons

Controlled and Uncontrolled Airspace Special Use Airspace Other Types of Airspace

#### 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

#### AVIATION WEATHER THEORY

**Tutorial - Basic Weather Principles** 

The Atmosphere Pressure and Altimetry Moisture Wind Air Masses and Fronts Clouds **Tutorial - Adverse Weather Phenomena** Adverse Wind Turbulence Icing Obstructions to Visibility Powerful Storm Systems

#### **Tutorial - Recognizing and Avoiding**

**Adverse Weather** 

Preflight Planning Inflight Weather Avoidance Resources Weather Avoidance Strategies

#### Lessons

**Basic Weather Principles** Winds, Air Masses, and Fronts Clouds and Fog Adverse Winds and Turbulence Icing and Visibility Obstructions Storm Systems Preflight Planning and Weather Resources Adverse Weather Avoidance

#### **CANADIAN AIM**

#### Lessons

GEN 1-3, 6 - General Information GEN 5 - Terms and Definitions AGA 1-5 - Aerodromes AGA 6-9 - Aerodromes COM 1-3 - Communications COM 4-7 - Communications MET 1 - Meteorology MET 2-5 - Meteorology MET 6-12 - Meteorology NAT - North Atlantic (NAT) Operations SAR - Search and Rescue MAP - Aeronautical Charts and Publications LRA - Licensing, Registration, and Airworthiness AIR 1-2.11 - Airmanship AIR 2.12-3.8 - Airmanship AIR 3.9-4 - Airmanship

#### CANADIAN RULES OF THE AIR AND AIR **TRAFFIC SERVICES (RACs)**

Lessons Section 1 - General Section 2 - Airspace Section 3 - Flight Planning Section 4.1-4.2 - Airport Operations Section 4.3-4.6 - Airport Operations Section 5 - VFR Enroute Procedures Section 6 - IFR General Section 7 - IFR Departure Procedures Section 8 - IFR Enroute Procedures Section 9.1-9.19 - IFR Arrival Procedures

Section 9.20-9.28 - IFR Arrival Procedures Section 10 - IFR Holding Procedures Section 11 - ATC Special Procedures **RAC Annex** 

#### **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)

## **CRM-ADM - Fixed Wing**

**Tutorial - CRM - Fixed Wing** Crew Resource Management Authority of the Pilot in Command **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 Fatique - Effects and Reduction Stress - Effects and Reduction Aeronautical Decision Making **Risks and Operational Pitfalls** 

#### ELECTRONIC FLIGHT BAG (EFB)

Threat and Error Management

Tutorial - Electronic Flight Bag (EFB) Introduction to EFBs Operation of the EFB Abnormal and Emergency Procedures Lessons Electronic Flight Bag (EFB)

#### FIXED WING WINDSHEAR Lessons

Windshear Weather - 1 Windshear Weather - 2 Windshear Encounters - 1 Windshear Encounters - 2 Flight Crew Actions Windshear Recovery

#### FUNDAMENTALS OF INSTRUCTION Tutorial - Duties, Functions, and

**Responsibilites** 

Duties, Functions, and Responsibilities Instruction and Evaluation Teaching Risk Management Aircraft Procedures and Corrective Actions **Tutorial - Fundamental Principles of** Instruction Human Behavior

**Teaching Methods** Learning Process Assessment and Critique

**Risk Management** 

**Tutorial - Case Study** Case Study

#### Lessons

Duties, Functions, and Responsibilities Fundamental Principles of Instruction

#### GPS (FW)

Tutorial - GPS Overview GPS System Description Availability and Reliability GPS Errors WAAS and GBAS Augmentation GPS NOTAMs, RAIM, and Aeronautical Information GPS Operational Overview

Tutorial - GPS Operations

IFR Operations Terminal Operations and Approaches WAAS Approaches Departure Procedures

#### Lessons

GPS Overview Terminal Operations WAAS

#### 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

# HIGH ALTITUDE WEATHER AND AERODYNAMICS

Tutorial - Introduction to High-Altitude Flight The High-Altitude Flight Environment Flight Planning and Navigation High-Altitude Emergencies Tutorial - Physiological Aspects of High-Altitude Flight

Respiration and Hypoxia Trapped Gas and Decompression Sickness

Tutorial - High-Altitude Mach Flight High-Altitude Aerodynamics and Performance Lessons

High-Altitude Weather and Planning High-Altitude Emergencies Physiological Aspects of High-Altitude Flight Mach Flight

#### JEPPESEN CHARTS

Lessons Area Charts Departure and Arrival Charts Enroute Low Altitude Charts Enroute High Altitude Charts Approach Charts

#### LAND AND HOLD SHORT OPERATIONS

Tutorial - Land and Hold Short Operations Introduction Factors Affecting Landing Distance LAHSO Requirements LAHSO Procedures Pilot-Controller Communications and Airport Markings Lessons Land and Hold Short Operations

# LOWER THAN STANDARD TAKEOFF

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

#### METAR and TAF Tutorial - METAR and TAF What is a METAR? METAR Elements METAR Remarks The TAF - Significant Differences Lessons Introduction METAR Body Elements METAR Remarks TAF Abbreviations and their Meanings

### MINIMUM EQUIPMENT LIST (MEL)

Tutorial - Minimum Equipment List (MEL) MEL Overview MEL Contents MEL Procedures Lessons

Minimum Equipment List (MEL)

#### 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

#### 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

#### **PILOT'S GLOSSARY - FW** Lessons

Pilot's Glossary A-C Pilot's Glossary D-N Pilot's Glossary O-W IFR Only

#### **PRM-SOIA** Procedures Tutorial - PRM-SOIA Procedures

PRM and SOIA Introduction **PRM Procedures** SOIA Procedures Lessons

PRM-SOIA - General Requirements **PRM** Approaches SOIA Approaches

#### **REDUCED VERTICAL SEPARATION** MINIMUM (RVSM) **Tutorial - RVSM**

**RVSM and Requirements RVSM Procedures** Turbulence, MWA, Communications, and **Contigency Actions** The Effect of RVSM on TCAS

#### **Tutorial - Oceanic Contingency** Procedures and SLOP

Oceanic Contingency Procedures and SLOP

#### Lessons

**Reduced Vertical Separation Minimum** (RVSM)

#### **RUNWAY INCURSION**

**Tutorial - Runway Incursion** Introduction Flight Planning Ground Operation Standard Operating Procedures Airport Lighting Airport Pavement Markings and Signs Equipment and Technology

#### Lessons

**Runway Incursion** 

#### 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

#### **SURVIVAL**

Lessons General Food Water Making Fires Signaling **Desert Survival** Arctic Survival Survival at Sea Navigation

### TCAS II

**Tutorial - TCAS II** History and Development **Basic Concept** System and Traffic Display Types of RAs Flight Crew Response **Problem Encounters** Operations Communication and Reporting Requirements Lessons

**General Information** System and Displays TAs and RAs Operations Communication and Reporting

### 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

An Operations Manual Training Program can be developed for your specific operations manual and specifications.