



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 - Aviation Weather Theory The Standard Atmosphere Moisture States of Water Cloud Types Air Masses Fronts Turbulence Adverse Weather Aviation Weather Services Lessons The Standard Atmosphere Moisture Cloud Types Air Masses and Fronts Turbulence and Wind Shear Adverse Weather - Icing Adverse Weather - Thunderstorms Adverse Weather - Fog

CANADIAN AIM

Aviation Weather Services

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 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)

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

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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 **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 Labeling and Marking Recognition of Undeclared Hazardous Materials Storage and Loading Procedures Pilot's Notification Provisions for Passenger and Crew Emergency Procedures 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 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 **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 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)

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

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

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

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.