

SUMMARY

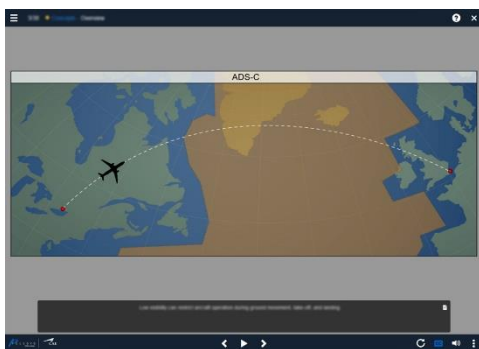
This course is intended for flight crew operating ADS-B equipped aircraft. It covers the components and operation of Automatic Dependent Surveillance – Broadcast (ADS-B) equipment. These systems are part of the Future Air Navigation (FANS 1/A) system, now in common use throughout the world.

TARGET POPULATION

The ADS-B course is designed for Professional Pilots requiring initial or recurrent training.

REGULATORY COMPLIANCE

- ICAO / EASA / FAA
- Maintenance compliance with IOSA standards



Versions Available:
ADS-B

Course Length:
1 hr 25 min

LESSON 01: System Components / Ground Service Providers

In this lesson we discuss:

- CNS / ATM
- Ground service providers
- FANS 1 / 1A
- Required Navigation Performance (RNP)
- ADS-B and Mode S
- ADS general
- Data authority
- Equipment requirements (ground, airborne and space-based)
- PBCS standards, including:
 - RCP
 - RSP

LESSON 02: General Procedures

In this lesson we discuss:

- Flight planning requirements

LESSON 03: Equipment Installation

In this lesson we discuss:

- ADS-B equipment
- ADS-B and Mode S general
- ADS-B parameters
- GPS monitoring
- Onboard performance monitoring
- Accessing ADS functions
- ATC surveillance

LESSON 04: ADS-B Operation

In this lesson we discuss:

- Typical ADS operations (based on Boeing 777 installation)
- ADS-B definitions
- ADS-B terminology
- ADS-B and ADS-C differences
- Datalink failures
- GPS position errors
- Contingency procedures
- ADS emergency mode, including:
 - Inadvertent activation

LEARNING TIME AND RUN TIME

This course has a learning time of: (run time plus additional time per page to account for understanding learning points)

- 1 hr 25 min

This course has a run time of: (the base time for each page to be completed)

- 42 min

Exam Generation System (EGS) Banked Questions

The total amount of banked questions for this course is:

Lesson Title	Standard Questions
System Components / Ground Service Providers	17
General Procedures	4
Equipment Installation	4
ADS-B Operation	--
	25

REFERENCE MATERIAL

This course provides the core elements of the CPDLC training, ground school component outlined in the:

ICAO

- ICAO Doc Global Operational Data Link Document (GOLD)
- ICAO Doc 9869 Performance based Communications and Surveillance
- ICAO Data Communications Implementation Team Tower Data Link Services Controller Pilot Data Link Communication Departure Clearance Service (CPDLC-DCL) Flight Deck User Guide

EASA

- EASA GM1 SPA.PBN.100 PBN Operations
- EASA Acceptable Means of Compliance (AMC) 20-24

FAA

- FAA AC 90-117
- FAA AC 20-160A
- FAA AC 90-114
- FAA A056 – Compliance Guide

The operator remains responsible for obtaining approval from the regulatory authority.

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