




GroupEAD Training Catalogue  
AIM Training . ADQ Training

2017



GroupEAD is a unique AISP that provides consolidated and structured AIM services to a big variety of ANSP and associated customers.

Handling, management and operation of data are our core competences.

Transferring these competences into other areas of aeronautical information management is the way GroupEAD supports the AIM Community to move forward.

**The first Training Academy  
exclusively focused on AIM**

# AIM Training Programme

# Index

We have developed a Training Programme addressed to those people who want to become AIM Staff including simulation experience in a real AIM environment . Whether you have aviation background or not, our Training Programme will allow you to understand and participate in present and future AIM developments.

## AIM Basic Training

If you do not have aviation background, these Training courses will allow you to acquire the necessary know-how to join Organisations managing aeronautical data.

## AIM Advanced Training

If you have aviation background and you want to improve your skills in AIM, these Training Courses will provide you with the necessary knowledge to be part of daily AIM operations.

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**AIM Basic Training**



# English for AIM

PH1-M01

## Course Objective

The participant will:

1. Explain professional aviation terminology
2. Explain aeronautical information common abbreviations

## Course Content

- Terminology concerning:
  - Aircraft;
  - Aerodromes;
  - Aeronautical telecommunications;
  - Meteorology;
  - Search and Rescue;
  - Aeronautical charts
  - Aeronautical Information Services (AIS)
- ICAO alphabet and numbers
- Expressions of radio frequencies and time
- Common acronyms
- ATS terminology



# Aviation Legislation

PHI-M02

## Course Objective

The participant will:

1. Demonstrate familiarization with the aviation regulation (ICAO Annexes, Documents etc) and rules of the air
2. Differentiate different types and functions of Airspaces

## Course Content

- Key national & international aviation organizations
- Purpose, organization and function of ICAO
- Financing Air Navigation Services
- Airspace
  - Different types and functions of airspace
  - ICAO airspace classes
  - National application of airspace
- Rules of the Air
  - Categories of International Rules of the Air
  - Influence on ATM and relevance to AIS
  - National differences with ICAO
  - Difference between VFR and IFR



## COURSE DETAILS

Duration: 4 days, classroom  
Participants: Current and future AIS/AIM Officers  
min number: 4

## Planned Dates

3. - 7. April 2017

## COURSE DETAILS

Duration: 5 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 5

## Planned Dates

17. - 21. April 2017

# Characteristics of Aircraft

PH1-M03

## Course Objective

The participant will:

1. Demonstrate familiarization with the aircraft environment
2. Differentiate different types and characteristics of Aircraft

## Course Content

- Principles of flight
  - Forces acting on aircraft
  - Structural components of aircraft
- Aircraft performance
  - Factors affecting aircraft on take-off and climb
  - Factors affecting aircraft at cruise and descent
- Flight instruments
  - Flight instruments for VFR and IFR flights
  - On-board navigation instruments
  - Other cockpit instruments
- Types and categories of aircraft



## COURSE DETAILS

Duration: 2 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

29. - 30. May 2017

# Air Navigation for AIS

PH1-M04

## Course Objective

The participant will:

1. Demonstrate familiarization with the earth, reference points, direction etc.
2. Differentiate different types and characteristics Navigation Aids

## Course Content

- The Earth
  - Reference points, lines, direction, distance and position
  - Geodetic concepts, vertical/horizontal reference systems
  - Magnetic field, temporal reference systems
- Projections
- Applied navigation
  - Distance between two points, types of aircraft speed
- Navigation aids
  - Ground based systems (NDB, VOR, TACAN, ILS)
  - On-board systems and instruments
- Flight procedures
  - Holding, IAP, STAR, SID



## COURSE DETAILS

Duration: 4 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

24. - 27. April 2017

# Meteorology

PH1-M05

## Course Objective

The participant will:

1. Demonstrate general awareness with the earth and its different atmospheric processes.
2. Differentiate different types and characteristics of meteorological phenomena.

## Course Content

- Atmosphere
  - International Standard Atmosphere
  - Air masses, wind systems, pressure systems, fronts
- Atmospheric processes
  - Temperature variation and air saturation
  - Air pressure
- Meteorological phenomena
  - Clouds, precipitation, atmospheric obscurity
  - Visibility, types of wind and hazardous phenomena
- Meteorological services
- Meteorological information
  - Weather reports, forecasts and charts

# Aerodromes

PH1-M06

## Course Objective

The participant will:

1. Define the basics of an aerodrome and recognize its main elements
2. Differentiate the parts of an aerodrome
3. Explain the characteristics of each part of an aerodrome

## Course Content

- Aerodrome layout
- Runway (elements, characteristics, lighting etc)
- Taxiway (characteristics, markings, lighting etc)
- Apron (elements, characteristics, guidance systems etc)
- Landing aids (visual aids, approach lighting systems etc)
- Services, facilities
- Obstacles
- Aerodrome data (ARP, elevations, declared distances etc)
- Heliports (characteristics, visual landing aids)



## COURSE DETAILS

Duration: 5 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

22. - 26. May 2017

## COURSE DETAILS

Duration: 3 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

31. May - 2. June 2017

# Equipment and Systems

PH1-M07

# Principles of ATM

PH1-M08

## Course Objective

The participant will:

1. Demonstrate its knowledge on ATM equipment.
2. Differentiate the different types of aeronautical telecommunication and surveillance systems.

## Course Content

- Communication systems
  - Principles of radio
  - Frequency bands
  - Principles of VDF/UDF
- Aeronautical telecommunication systems
  - Telecommunication networks (AFT, SITA, CIDIN etc)
  - Broadcasting systems (ATSI, VOLMET)
- Surveillance systems
  - Principles, types and use of radar (PSR, SSR)
  - ADS, Satellite systems, data links
- European AIS Database

## Course Objective

The participant will:

1. Recognize different subjects related to Air Traffic Management
2. Explain the main concepts of ATM and identify its features

## Course Content

- Types of Air Navigation Services (ATS, ATFM, CNS etc)
- Flight data processing
- Altimetry and level allocation
- Principles of separation
- Collision avoidance
- Air Traffic Flow and Capacity Management (ATFCM)
- Airspace Management
- SES, FAB, Free Routing



## COURSE DETAILS

Duration: 3 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

6. - 8. June 2017

## COURSE DETAILS

Duration: 3 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

12. - 14. June 2017



# International AIM Training

PH3-M03

## Course Objective

The participant will:

1. Name the main concepts of AIM and explain the aspects of it.
2. List the changes to be implemented to move to an AIM environment

## Course Content

- AIM Strategy
  - Aeronautical Information Management (AIM)
  - Key players
- ICAO AIS to AIM roadmap
- AIM Compliance
  - Requirements
  - Action plan
- Transition
  - AIM Processes
  - Structural and strategic changes
  - Service Level Agreements (SLA)
- AIM compliant data and service provision
- Processes and standards assuring safety and quality

# Aeronautical Information Services

PH2-M01

## Course Objective

The participant will:

1. Explain the main concepts of AIS.
2. State the components of the Integrated Aeronautical Information Package
3. Differentiate the different AIS publications

## Course Content

- Principles of AIS.
- Documentation in AIS.
- Responsibilities and functions of AIS.
- Integrated Aeronautical Information Package.
- Integrated Briefing.
- Equipment and software used in AIS.
- Encode / decode Aeronautical Information.
- Process raw data.
- Coordination with originators, ATS units, customers etc.
- Compiling and storing static data.
- Data exchange standards and GIS.
- AIM strategy



## COURSE DETAILS

Duration: 2 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 3

## Planned Dates

8. - 9. May 2017  
5. - 6. October 2017  
11. - 12. December 2017

## COURSE DETAILS

Duration: 10 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 3

## Planned Dates

27. February - 10. March 2017  
19. - 30. June 2017  
16. - 27. October 2017

# Dynamic Data

PH2-M02

## Course Objective

The participant will:

1. Describe the main concepts of Dynamic Data.
2. List the different types of TAM messages
3. Recognize some codes used in the Q line to process the information in a NOTAM

## Course Content

- Objective, duration and types of Dynamic Data.
- Receiving and analysing information for NOTAM
- Content, purpose and rules related to NOTAM format.
- NOTAM creation
  - NOTAM items
  - NOTAMR and NOTAMC
  - NOTAM Checklist
  - Trigger NOTAM
- Database completeness and coherence messages
- SNOWTAM creation
- Pre-Flight Information Bulletin (PIB)
  - Scope, content, types and structure of PIB

## COURSE DETAILS

Duration: 5 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

10. - 14. July 2017

# ATS Reporting Office (ARO)

PH2-M03

## Course Objective

The participant will:

1. Explain the main concepts and tasks of a ATS Reporting Office.
2. Demonstrate familiarization with different types of preflight information.

## Course Content

- Functions of ARO
- Flight Plan
  - Format, items, regulations and submission
- Flight Plan associated messages
- IFPS/CFMU
  - Message exchange with IFPS
  - Operational Reply Messages (ORM): MAN, REJ, ACK.
  - Message exchange with CFMU
  - ATFCM Messages

The image shows a screenshot of a flight plan form titled "International Flight Plan". The form is divided into several sections with various fields and checkboxes. Key sections include: "FLIGHT PLAN" with fields for "FLIGHT PLAN NUMBER" and "FLIGHT PLAN TYPE"; "FLIGHT PLAN DATA" with fields for "FLIGHT PLAN NUMBER", "FLIGHT PLAN TYPE", "FLIGHT PLAN DATE", "FLIGHT PLAN TIME", "FLIGHT PLAN LOCATION", "FLIGHT PLAN ALTITUDE", "FLIGHT PLAN SPEED", "FLIGHT PLAN WEIGHT", "FLIGHT PLAN PASSENGERS", "FLIGHT PLAN CREW", "FLIGHT PLAN CARGO", "FLIGHT PLAN SPECIAL REQUIREMENTS", "FLIGHT PLAN COMMENTS", "FLIGHT PLAN SIGNATURE", "FLIGHT PLAN DATE", "FLIGHT PLAN TIME", "FLIGHT PLAN LOCATION", "FLIGHT PLAN ALTITUDE", "FLIGHT PLAN SPEED", "FLIGHT PLAN WEIGHT", "FLIGHT PLAN PASSENGERS", "FLIGHT PLAN CREW", "FLIGHT PLAN CARGO", "FLIGHT PLAN SPECIAL REQUIREMENTS", "FLIGHT PLAN COMMENTS". There are also checkboxes for "FLIGHT PLAN IS A FLIGHT PLAN", "FLIGHT PLAN IS A FLIGHT PLAN", "FLIGHT PLAN IS A FLIGHT PLAN".

## COURSE DETAILS

Duration: 5 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

17. - 21. July 2017

# Overview of Aviation / ATM

PH3-M01

## Course Objective

The participant will:

1. Describe the main concepts and tasks of a Air Traffic Management.
2. Demonstrate familiarization with different aspects of flights, aerodromes, airspaces, meteorology, aeronautical data etc.

## Course Content

**Theory of Flight:** Basic terms and concepts related to flying - basis for the entire aviation industry.

**Aerodrome:** Overview of aerodrome layout, various service areas and technologies of an aerodrome.

**Airspace:** Basic terms related to the concept of airspace - background knowledge required for associated technologies.

**ATM:** Major actors and services of Air Traffic Management contributing to the safe conduct of flight.

**Terminology:** Common practices in aviation communication.

**Air Navigation:** Overview of basic navigation related principles and technologies.

**Meteorology:** Major weather concepts having impact on the technology used in aviation.

**Aeronautical Data:** Sources and accepted methods for managing aeronautical data

## COURSE DETAILS

Duration: 5 days, classroom

Participants: Professionals requiring quick and efficient overview and introduction to aviation principles (e.g. engineering staff, sales staff).  
min. number: 4

## Planned Dates

24. - 28. July 2017





# AICM/AIXM 4.5 Basic

PH2-M04

## Course Objective

The participant will:

1. Explain the AICM/AIXM principles and benefits
2. Describe the differences and relationships between AICM, AIXM, Static Database and their applicable respective rules
3. Read and recognize AIXM messages (Update and Snapshots)
4. Detect and correct errors in an AIXM-Update file using XML Spy

## Course Content

### Aeronautical Information Conceptual Model (AICM)

- UML basic concepts
- AICM introduction
- AICM plain text rules (Technical and Business rules)
- Geometrical aspects of AICM
- Time schedules
- AICM main Entities:
- Exercises

### Aeronautical Information Exchange Model (AIXM)

- XML Basic concepts
- AIXM Introduction
- Unique identifiers, Data Types and deprecated elements
- Features: Attributes and relationships
- AIXM Schema
- AIXM Messages: Update and Snapshot
- Data Integrity
- Exercises

### Check and validation of AIXM messages

### AIM and future developments



# AICM/AIXM 4.5 Advanced

PH2-M05

## Course Objective

The participant will:

1. Create, edit and export to CSV a basic database using Excel.
2. Map data from CSV files, Databases and Snapshot to XML (AIXM-Update) using MapForce
3. Edit, validate and correct AIXM-Update files using Altova Spy
4. Check, explain and repair level A errors from SDO Upload Status Report

## Course Content

### Editing raw data

- SDO Reports as a source of data
- Microsoft Excel - most common formulas and functions for aeronautical information purposes

### Related entities in a database

- Database principles
- Databases with Microsoft Access
- Relation among tables

### Uploading valid AIXM files to Static database

### AIXM Message (Altova MapForce)

- Altova Mapforce: Basics
- Mapping
- Libraries, filters and conditions
- Saving resulting XML file

### Editing AIXM messages (Altova Spy)

- Altova Spy: Basics
- Edition of AIXM messages
- Check and validation against the AIXM 4.5 schema

### Exercises



## COURSE DETAILS

Duration: 5 days, classroom

Participants: Current and future AIS/AIM Officers  
min. number: 3

### Planned Dates

9. - 13. January 2017  
28. August - 1. September 2017

## COURSE DETAILS

Duration: 5 days, classroom

Participants: Current and future AIS/AIM Officers  
Prerequisite: AICM/AIXM 4.5 Basic Course  
min. number: 4

### Planned Dates

16. - 20. January 2017  
4 - 8. September 2017

# AICM/AIXM 5.1 Basic

PH2-M06

## Course Objective

The participant will:

1. Study and apply the AIXM 5.1 UML Model
2. Describe the basics of XML
3. Differentiate and explain the basics of GML
4. Analyse AIXM 5.1 requirements and approach
5. Recognize and work with the AIXM 5.1 XML Model/Schema
6. Explain the Digital NOTAM Concept

## Course Content

Computer models intended for aeronautical data storage and exchange

- Aeronautical Information Models

Introduction to AIXM 5.1

- AIXM 5.1 Model Objectives

UML Basic concepts

AIXM 5.1 UML Model

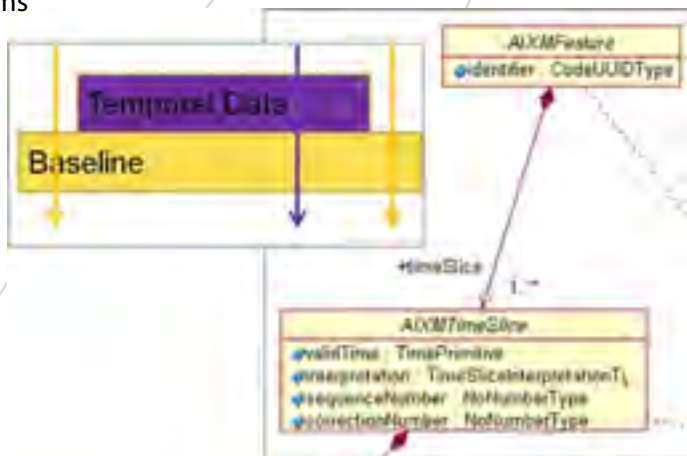
- Class Diagrams vs. Entity Relation Diagrams
- AIXM UML Modelling Conventions
- Other Aspects of the Model

Geography Markup Language (GML)

AIXM 5.1 Requirements and Approach

- AIXM 5.1 and GML

Digital NOTAM and SNOTAM



# AICM/AIXM 5.1 Advanced

PH2-M07

## Course Objective

The participant will:

1. List different computer models intended for aeronautical data storage and exchange.
2. Explain UML concepts
3. Describe geometries using GML

## Course Content

Computer models intended for aeronautical data storage and exchange

- Aeronautical Information Models
- Aeronautical Information Conceptual Model (AICM)
- Aeronautical Information Exchange Model (AIXM)
- The Future of the Data Exchange Models (AIM)

UML Advanced concepts

Geography Markup Language (GML)

- Geometries in GML
- XML and GML

AIXM 5.1 Architecture

- AICM and AIXM 5.1
- Architecture
- Requirements, Analysis and Design



## COURSE DETAILS

Duration: 5 days, classroom

Participants: Current and future AIS/AIM Officers

Prerequisite: AICM/AIXM Basic Course  
min. number: 4

## Planned Dates

17. - 21. April 2017

18. - 22. September 2017

## COURSE DETAILS

Duration: 5 days, classroom

Participants: Current and future AIS/AIM Officers

Prerequisite: AICM/AIXM 5.1 Basic Course  
min. number: 4

## Planned Dates

24. - 28. April 2017

25. - 29. September 2017

# Quality Assurance

PH3-M02

## Course Objective

The participant will:

Differentiate, explain and apply Data Quality Assurance principles and procedures related to aeronautical data.

## Course Content

- Data Quality Assurance (DQA)
- DQA Regulation and Concepts
- Quality Assurance Methodology
- Scope of Quality Assurance Procedures
- Objective of Quality Assurance procedures
- Definition of Sampling Plan
- Definition of Reviews
- Error Classification
- Quality Assurance: Review and Recording
- Quality Assurance: Verification and Reporting
- Quality Assurance: Actions
- Guidelines for Implementing Quality Assurance Procedures



## COURSE DETAILS

Duration: 3 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4

## Planned Dates

7. - 8. August 2017

# Evolution from AIS to AIM

PH3-M04

## Course Objective

The participant will:

1. Describe today's evolution from AIS to AIM concepts
2. Explain the main AIS developments that need to be implemented
3. List the main legal and developments aspects (ICAO AIS to AIM roadmap, etc.)
4. State the basics of Aeronautical Information Conceptual Model (AICM)
5. State the basics of Aeronautical Information Exchange Model (AIXM)

## Course Content

### Evolution from AIS to AIM

- Needs for AIS Development
- AIS development: Going Digital, Standard Aeronautical Information Exchange Model
- Principles Guiding Transition to AIM
- ICAO AIS to AIM Roadmap

Information Management (IM), Key enabler for the future ATM System

System Wide Information Management (SWIM)

- Flights and Airports
- Aviation Meteorology

Transition towards AIM

Quality Phase. Quality Monitoring. Data Integrity Monitoring.

- AICM (Aeronautical Information Conceptual Model)
- AIXM (Aeronautical Information Exchange Model)
- Electronic AIP, Electronic TOD (Terrain and Obstacle Data)
- Digital NOTAM, Integrated Briefing.

## COURSE DETAILS

Duration: 2 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4  
Prerequisite: AIS Knowledge

## Planned Dates

22. - 23. May 2017  
14. - 15. September 2017  
13. - 14. December 2017



# AIM Excellence Programme

PHX-MOX

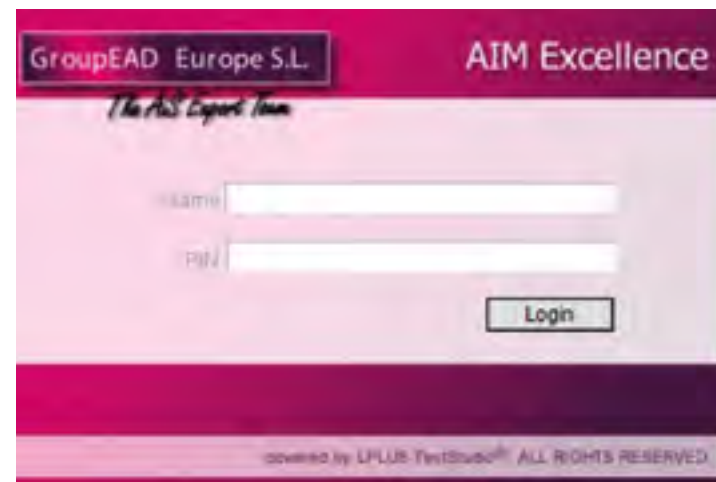
## Purpose and Benefits

- AIM Excellence Programme is an interactive Online Web Based Tool.
- Programme provides continuous and efficient management of basic knowledge needed for AIM professionals.
- Programme motivates people to pursue high level of personal know-how.
- Programme provides evidence of the staff's proficiency.
- Programme is an online service that can be easily accessed via internet from anywhere in the world and is easy to handle.
- Programme allows AIM professionals to use the tool at any point in time for improving and refreshing their know-how.
- Programme provides possibility to define customised level tests.
- All records are strictly personal and confidential.

## Course Content

Extensive library of questions/answers covering a large variety of subjects:

- Aerodromes
- Aeronautical Information Services (AIS)
- ATS Reporting Office (ARO)
- Air Traffic Management (ATM)
- Characteristics of Aircraft
- Dynamic Data
- English and Abbreviations
- Air Navigation
- Equipment and Systems
- Aviation Legislation



## COURSE DETAILS

Duration: Based on customer requirements (definition of tests)  
Methods: Online Tool, Question Database  
Price: Contact us for attractive offer

# Electronic Terrain and Obstacle Data (eTOD)

PH3-M05

## Course Objective

The participant will:

1. Demonstrate familiarization with the concept and aspects of electronic terrain and obstacle data.
2. Differentiate different types of obstacles and explain the workflow and methodology

## Course Content

- eTOD Definition
- Terrain
- Obstacles
- Terrain and obstacle coverage area
- Feature classes in the AIS Data Model
- Terrain Data
- Obstacle Data
- Workflow
- Methodologies for eTOD



## COURSE DETAILS

Duration: 2 days  
Participants: min. number: 4

## Planned Dates

29. - 30. May 2017  
9. - 10. October 2017  
18. - 19. December 2017

# Terminal IFR Coding for AIS Databases

PH3-M06

## Course Objective

The participant will:

- 1. Understand the basics of ARINC 424
- 2. Understand the value of coding for aeronautical databases

## Course Content

- Basic introduction to ARINC 424 records
- Introduction to the Path & Terminator concept, usage and legs
- Coding SID, STAR and IAP
- Basic coding skills needed to facilitate the procedure data entry

NOTE: This course is not intended for FMS coding.

## COURSE DETAILS

Duration: 4 days  
Participants: min. number 4

## Planned Dates

27. - 30. March 2017  
06. - 09. November 2017

# Global Navigation Satellite System (GNSS)

PH3-M07

## Course Objective

The student will be able to:

- 1. Explain the main concepts of GNSS systems, including a detailed description of the spatial, ground and user segments, some details on the signal structure.
- 2. List the main sources of errors when using GNSS data to navigate.

## Course Content

- GNSS Core constellations and augmentations.
- Augmentation systems – EGNOS, the European augmentation to GPS.
- GPS System Evolution.
- GPS and other systems’ developments: Galileo, GLONASS, BeiDou and IRNSS.
- Concept of RAIM and Dual Frequency Multi-Constellation (DFMC)
- Aviation GNSS Applications Framework (ICAO, RTCA, etc.).
- Introduction to PBN (Performance Based Navigation) and GNSS.
- GNSS Based procedures implementation impact on ANSP/AIS.
- Overview of GNSS-Based implementation procedures status. Implementation strategies and level of implementation in different regions of the world. Different approach procedures that will be implemented in each zone (RNP, APCH, RNP, AR, GBAS, etc.)
- GNSS on-board systems and pilot perspective
- GNSS flight test (on certified flight simulator Garmin G1000).

## COURSE DETAILS

Duration: 2 days  
Participants: Present and future AIS/AIM professionals  
min. number 4

30. - 31. January 2017      8. - 9. May 2017  
11. - 12. September 2017    11. - 12. December 2017



## ADQ Training

# ADQ Training

### Regulation

- ADQ Executive Awareness
- ADQ General Regulation
- ADQ for Airport Data

### Means of Compliance

- ECTRL means of compliance
- AIXM Basic and Advanced (see page 22 - 25)

### Aeronautical Information Management

- International AIM (see page 16)
- Evolution from AIS to AIM (see page 27)

### Remote training/assessment

- AIM Excellence tool (see page 28)



# ADQ Executive Awareness

PH4-MO1

## Course Objective

- The participant will:
- Demonstrate familiarization with European Commission Regulation 73/2010
- List the main aspects of Regulation 73/2010 and take into account how it affects the aeronautical Data Change for the Single European Sky

## Course Content

- Regulation 73/2010
- Legal Framework
- European Commission
- Single European Sky. Actors. EUROCONTROL role
- Implementing Rules
- Community Specifications (CS)
- The need of Aeronautical Data Quality
- From Implementing Rule to Regulation
- Overview of the ADQ Regulation
- Objective and background to the ADQ Regulation.
- Structure of the ADQ Regulation
- Articles
- Audit and Compliance

## COURSE DETAILS

Duration: 1 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4  
Prerequisite: AIS Knowledge

## Planned Dates

9. January 2017      8. May 2017  
28. August 2017      13. November 2017

# ADQ General Regulation

PH4-MO2

## Course Objective

The participant will:

1. Demonstrate deep understanding of European Commission Regulation 73/2010
2. Name and explain the means of compliance, level of implementation and the respective assessment and audit process.

## Course Content

### Regulation 73/2010

- Deep view of the ADQ Regulation
- Objective and background to the ADQ Regulation.
- Implementation. ESSIP/ LSSIP
- Guidance on the Planning of the Implementation of the ADQ Regulation
- ADQ Guide, Maintenance
- Audit and Compliance
- EUROCONTROL means of compliance
- EUROCONTROL specifications
- DAL/DQL, AIXM Conceptual Model
- Other means: CRC, Digital Signature, Encryption

## COURSE DETAILS

Duration: 5 days, classroom  
Participants: Current and future AIS/AIM Officers  
min. number: 4  
Prerequisite: AIS Knowledge

## Planned Dates

16. - 20. January 2017      15. - 19. May 2017  
4. - 8. September 2017      20. - 24. November 2017

# ADQ for Airport Data

PH3-M03

## Course Objective

The participant will:

1. Demonstrate deep understanding of European Commission Regulation 73/2010
2. Differentiate and explain all the information of Data Quality Requirements and assurance levels for airport dataset.

## Course Content

Regulation 73/2010

- Implementing Rules
- Community Specifications (CS)
- The need of Aeronautical Data Quality
- From Implementing Rule to Regulation
- Objective and background to the ADQ Regulation.
- Structure of the ADQ Regulation
- ADQ Guide, Maintenance
- Audit and Compliance
- Data Originators

## COURSE DETAILS

Duration: 3 days, classroom

Participants: Current and future AIS/AIM Officers

min. number: 4

Prerequisite: AIS Knowledge

## Planned Dates

10. - 12. January 2017

9. - 11. May 2017

29. - 31. August 2017

14. - 16. November 2017

# EUROCONTROL Means of Compliance

PH4-M04

## Course Objective

The participant will:

1. Demonstrate deep understanding of European Commission Regulation 73/2010
2. List and explain the EUROCONTROL specifications recommended for acting as means of compliance for ADQ Regulation.

## Course Content

Regulation 73/2010

- Implementing Rules
- Community Specifications (CS)
- The need of Aeronautical Data Quality
- From Implementing Rule to Regulation
- Objective and background to the ADQ Regulation.
- Structure of the ADQ Regulation
- ADQ Guide, Maintenance
- Audit and Compliance
- eAIP Specification
- DQR Specifications
- DAL Specifications
- DO Specifications

## COURSE DETAILS

Duration: 5 days, classroom

Participants: Current and future AIS/AIM Officers

min. number: 3

Prerequisite: AIS Knowledge

## Planned Dates

23. - 27. January 2017

22. - 26. May 2017

11. - 15. September 2017

27. November - 1. December 2017

# AIM Customized Training

## AIS Ab Initio customized Course

PH5-M02

### Course Objective

The participant will:

1. Explain the concept and content of the Integrated Aeronautical Information Package
2. List the principles and responsibilities of AIS
3. Explain the concept and content of the Integrated Briefing
4. Code/Encode aeronautical Information
5. Describe the basics of Dynamic Data. Basic decode and create NOTAM
6. Name the different parts of an Aerodrome
7. Explain the basics of AICM and AIXM. Work in an AIM environment
8. Describe the basics of Aeronautical Data Quality.

### Course Content

- AIS Generals
- Aviation Legislation
- Air Navigation for AIS
- Aerodromes
- Dynamic Data
- Transition from AIS to AIM
- Basics of Aeronautical Information Conceptual and Exchange Models (AICM/AIXM)
- Aeronautical Data Quality (ADQ)

### COURSE DETAILS

Duration: 15 days

Participants: min. number: 4

### Planned Dates

27. February - 17. March 2017

19. June - 7. July 2017

16. October - 3. November 2017



# AIS to AIM customized Course

PH5-M02

## Course Objective

The participant will:

1. Describe today's evolution from AIS to AIM concepts
2. Explain the main AIS developments that need to be implemented
3. Apply Data Quality Assurance principles and procedures related to aeronautical data
4. State the basics of Aeronautical Information Conceptual Model (AICM)
5. State the basics of Aeronautical Information Exchange Model (AIXM)

## Course Content

- AIS to AIM Roadmap
- AIS to AIM Roadmap main steps
- Data Quality Assurance
- Guidelines for implementing Quality Assurance Procedures
- Basics of Aeronautical Information Conceptual and Exchange Models (AICM/AIXM)
- AIXM 5.1 Introduction
- UML, GML, Airport Mapping Database and eTOD concepts.

**Contact us for customization!**

## COURSE DETAILS

Duration: 15 days

Participants: min. number: 4

## Planned Dates

8. - 26. May 2017

16. October - 3. November 2017

# About GroupEAD Europe S.L.

The GroupEAD team consists of experts from all key areas of air traffic business including AIS/AIM Officers, Air Traffic Control, Airports and Airlines. Our unique background of multinational and multilingual staff members allows us to provide our experience to our clients in an engaged and flexible way. Our further dedication to our clients includes 24/7 services.

Today GroupEAD is providing a range of services in the context of Aeronautical Information Management with experience and a proven record.

- Training courses are designed specifically for AIM staff
- Trainers have extensive experience and are operational experts
- Flexibility to address needs through Modules and Training Locations
- Customisation to local needs
- Refreshing the know-how is a key to continuous improvement
- You will enjoy our training through active participation and involvement

GroupEAD Europe S.L. is an experienced and respected provider in the field of AIS Services and Training. Our average participant satisfaction rate from the past years is 98%.

GroupEAD has developed a sophisticated Quality Management System (QMS), and is ISO 9001:2008 certified with continuously successful re-certifications over the past years.

GroupEAD trainers are experienced professionals coming from different countries, speaking several different languages.

More than 700 Training  
courses conducted  
2003-2015

More than 20 different  
organisations during  
2015

In a near future, it will be essential, that aeronautical data are provided in a common, system and platform independent format (or set of harmonized format) within the future aeronautical information management system.

All the modules can be combined and customized based on your specific needs. All modules can be provided also on regular basis, in refresher mode and at the location of your choice.

# General Information

## On GroupEAD Training Programme

### Training Location and Participants

Trainings are generally conducted in San Fernando de Henares/Madrid, Spain. Training can also be conducted in our Training Centre in Frankfurt am Main, Germany and as well at any customer location, assuming that a classroom is available.

Classroom courses

Minimum amount of participants: 4  
Maximum amount of participants: 15

Prices in this programme are for courses located in Madrid. Discount on prices is available based on increased number of participants.

### Training Material

All participants will be provided with respective material during the course. Ownership of all copyright and other intellectual property rights of the course material, including all documentation, data, technical information and know-how provided as part of the training, remains vested in the provider of the training, unless otherwise specified in the material. All such information shall be held in confidence and may not be disclosed to third parties without the express permission of GroupEAD Europe S.L.

### Training Schedule

All Training Modules can be combined as requested. The exact schedule, length of the day, group sizes etc are coordinated based on the customer's needs.

### Prerequisites

The training language is generally English. On request, dedicated modules can also be provided in other languages (contact us for further details). All trainees shall have a sufficient command of the language used, enabling them to follow the training.

### Terms and Conditions

The terms and conditions applicable to all training courses in this programme are available upon your request. Do not hesitate to contact us for further information! We will be more than happy to support you!

For further information please contact us:

Jeanette Schroder Training Expert jeanette.schroder@groupead.com +49.69.78072.893	Oscar Centeno Deputy Officer Training oscar.centeno@groupead.com +34.6726.10347	Judith Kouronfli Training Assistant judith.kouronfli@groupead.com +49.69.78072.894
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# Training 2017

## Schedule and Price List

Courses	Length	Scheduled Dates	Price per 1 Person
<b>AIM Basic</b>			
English for AIM	4 days	3. - 7. April	1.400,00 €
Aviation Legislation	5 days	17. - 21. April	1.500,00 €
Characteristics of Aircraft	2 days	29. - 30. May	700 €
Air Navigation for AIS	4 days	24. - 27. April	1.400,00 €
Meteorology	5 days	22. - 26. May	1.750,00 €
Aerodromes	3 days	31. May - 2. June	1.050,00 €
Equipments and Systems	3 days	6. - 8. June	1.050,00 €
Principles of ATM	3 days	12. - 14. June	1.050,00 €
International AIM Training	2 days	8. - 9. May	1.100,00 €
	2 days	5. - 6. October	1.100,00 €
	2 days	11. - 12. December	1.100,00 €
Aeronautical Information Services	10 days	27. February - 10. March 19. - 30. June 16. - 27. October	3.600,00 €
Dynamic Data	5 days	10. - 14. July	1.850,00 €
ATS Reporting Office	5 days	17. - 21. July	1.750,00 €
Overview of Aviation / AIM	5 days	24. - 28. July	1.750,00 €

<b>AIM Advanced</b>			
AIXM 4.5 Basic	5 days	9. - 13. January	1.850,00 €
	5 days	28. August - 01. September	1.850,00 €
AIXM 4.5 Advanced	5 days	16. - 20. January	1.850,00 €
	5 days	04. - 08. September	1.850,00 €
AIXM 5.1 Basic	5 days	17. - 21. April	1.850,00 €
	5 days	18. - 22. September	1.850,00 €
AIXM 5.1 Advanced	5 days	24. - 28. April	1.850,00 €
	5 days	25. - 29. September	1.850,00 €
Quality assurance	3 days	7. - 8. August	1.100,00 €
Evolution from AIS to AIM	2 days	22. - 23. May	800,00 €
	2 days	14. - 15. September	800,00 €
	2 days	13. - 14. December	800,00 €

Courses	Length	Scheduled Dates	Price per 1 Person
<b>AIM Advanced</b>			
Electronic Terrain and Obstacle Data (eTOD)	2 days	29. - 30. May	800,00 €
	2 days	9. - 10. October	800,00 €
	2 days	18. - 19. December	800,00 €
AIM Excellence Programme	On request	On request	On request
Terminal IFR Coding for AIS Databases	4 days	27. - 30. March	1.850,00 €
	4 days	6. - 9. May	1.850,00 €
Global Navigation Satellite System (GNSS)	2 days	30. - 31. January 2017	1.100,00 €
	2 days	8. - 9. May 2017	1.100,00 €
	2 days	11. - 12. September 2017	1.100,00 €
		11. - 12. December 2017	1.100,00 €

<b>ADQ Training</b>			
ADQ Executive Awareness	1 day	9. January	450,00 €
	1 day	8. May	450,00 €
	1 day	28. August	450,00 €
	1 day	13. November	450,00 €
ADQ General Regulation	5 days	16. - 20. January	1.850,00 €
	5 days	15. - 19. May	1.850,00 €
	5 days	4. - 8. September	1.850,00 €
	5 days	20. - 24. November	1.850,00 €
ADQ for Airport Data	3 days	10 - 12. January	1.100,00 €
	3 days	9. - 11. May	1.100,00 €
	3 days	29. - 31. August	1.100,00 €
	3 days	14. - 16. November	1.100,00 €
Eurocontrol Means of Compliance	5 days	23. - 27. January	1.850,00 €
	5 days	22. - 26. May	1.850,00 €
	5 days	11. - 15. September	1.850,00 €
	5 days	27. November - 01. December	1.850,00 €

<b>AIM Customized Training</b>			
AIS Ab Initio customized Course	15 days	27. February - 17. March	On request
	15 days	19. June - 7. July	On request
	15 days	16. October - 3. November	On request
AIS to AIM customized Course	15 days	8. - 26. May	On request
	15 days	16. October - 3. November	On request





# Enrolment Form

## Your contact information:

Title:
Surname:
First name:

Phone:
Fax:
E-mail:

## Your company information:

Company name:
Company VAT number:

Company address:
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## How would you like us to respond:

<input type="checkbox"/> Telephone
<input type="checkbox"/> E-Mail
<input type="checkbox"/> Fax

<input type="checkbox"/> Providing more information
<input type="checkbox"/> Personal Meeting / Visit
<input type="checkbox"/> Dedicated Offer

## Services Interested

1
2
3
4

## Training courses interested:

No:	Course Name	Date/Alternative Date	No. of Participants
1			
2			
3			
4			
5			
6			

## Please send to:

E-Mail: [info@groupead.com](mailto:info@groupead.com)

## Signatures

Date	Applicant	Superior



# Directions

## to Group EAD Europe S.L. Madrid

### GroupEAD Europe S.L.

Business Premises Madrid  
Parque Empresarial San Fernando  
Avenida de Castilla 2 ,  
Edificio Francia, Escalera A - Piso 2  
28830 San Fernando de Henares, Madrid  
SPAIN

### Arriving by car

#### From Avenida de América

Head east on A-2. Take exit 17A for M-115 towards M-50/  
M45/R-2/Ajalvir, and at the fork keep right towards Parque  
Empresarial Zona Industrial. Then slight right onto Av. de Castilla  
and the Business Park is on your right hand side.

#### From Adolfo Suarez Madrid Barajas Airport – Terminal 1 (via Vía de Servicio)

From Terminal 1, head North to take M-14, Exit 1, Vía de Servicio  
and E-90/A-2 to Av. de Castilla. At the roundabout, take the 1st  
exit. Keep left at the fork; follow signs for M-14/Madrid Centro  
ciudad/Avda. América/A-2/M-40/A-3/A-4/A-5 and merge onto  
M-14. Use the right 2 lanes to take exit 1 for E-90/A-2 to Zaragoza  
Vía de Servicio. Continue onto Coslada / San Fernando - Vía De  
Servicio and stay in Vía De Servicio. Use the left lane to merge  
onto E-90/A-2 via the ramp to Zaragoza/Barcelona. Take exit 17A  
for M-115 towards M-50/M45/R-2/Ajalvir, and at the fork keep  
right towards Parque Empresarial Zona Industrial. Slight right  
onto Av. de Castilla and the San Fernando Business Park is on  
your right hand side.

#### From Avenida de América

Head east on A-2. Take exit 17A for M-115 towards M-50/  
M45/R-2/Ajalvir, and at the fork keep right towards Parque  
Empresarial Zona Industrial. Then slight right onto Av. de Castilla  
and the Business Park is on your right hand side.

### Hotel recommendation

#### Hotel Axor Fería

Calle Campezo, 4,  
28022 Madrid  
Telephone +34 913 12 23 79  
en.axorhoteles.com/feria/

#### Hotel Axor Barajas

Calle Campezo, 4,  
28022 Madrid  
Telephone +34 913 12 19 60  
en.axorhoteles.com/suites-barajas/



### Arriving by car

#### From Atocha Railway station

Take line C7 (red) direction Alcalá de Henares or line C2 (green)  
direction Guadalajara. There is a free shuttle service, which con-  
nects Torrejón de Ardoz Railway Train Station (Renfe) with our  
premises in San Fernando Business Park. In Torrejón de Ardoz,  
the shuttle stop is located in Alicante Street, 2.

#### From Madrid (Avenida de América)

Take the bus 1 Pol. Industrial (in the directions to C.C. San Fernando)  
211 (in the directions to Guadalajara)  
223 (in the direction to Alcalá de Henares)  
224 (in the directions to Torrejón de Ardoz)  
224 A (in the directions to Torrejón de Ardoz, La Mancha Amarilla)



### GroupEAD Europe S.L.

Business Premises Germany  
Stuetzelaeckerweg 12 - 14  
60489 Frankfurt am Main  
GERMANY



### Hotel recommendation

#### Hotel Rödelheimer Hof am Wasserturm

Eschborner Landstraße 146  
60489 Frankfurt am Main  
Telephone +49 69 153947100  
www.roedelheimer-hof.de

#### Fair Hotel West in Frankfurt

Friedrich Kahl Strasse 22  
60489 Frankfurt  
Telephone: +49 69 78078303  
www.fairhotelfrankfurt.de

## to Group EAD Europe S.L. Frankfurt

### Arriving by car

#### From the east, west or south

Take motorway A5 at „Frankfurter Kreuz“ to the north up to exit  
„Nordwestkreuz Frankfurt“. After exiting stay in the right lane  
until you reach the traffic light where you pick the left lane. Turn  
left at the traffic lights, following the road under the bridge  
where you should get into the left lane in order to turn to the  
left at the next traffic lights. The road follows a long left curve in  
the upward direction to the next traffic lights. Turn left again and  
then turn right at the first intersection into Eschborner Land-  
straße. The first access road to the right is Stützeläckerweg (right  
behind the „Hotel Rödelheimer Hof - Am Wasserturm“)

#### From the north

Take motorway A5 to the south until you reach „Westkreuz  
Frankfurt“, from there follow Wiesbadener Straße (A648) in the  
direction of Eschborn to the exit „Frankfurt-Rödelheim“. This exit  
leads you right into Westerbachstraße. After crossing motorway  
A5, turn left into Gaugrafenstraße and then into Am Seedamm  
road (after appr. 50 metres). When you reach the first intersec-  
tion with traffic lights, turn into Eschborner Landstraße. The first  
access road to the right is Stützeläckerweg (right behind the  
„Hotel Rödelheimer Hof - Am Wasserturm“)

### Arriving by train and bus

#### From Frankfurt Airport

Take the commuter train S8 or S9 to Frankfurt central station.  
Travel time: appr. 15 min

#### From Frankfurt central station

Take S3 (in the direction of Bad Soden)  
S4 (in the direction of Kronberg) or  
S5 (in the direction of Friedrichsdorf)

Exit at Frankfurt-Rödelheim station. Travel time: appr. 10 min. From  
Rödelheim station (exit West), take bus no. 55 or no. 60 (in the  
direction of Heddernheim). Leave the bus at the second stop  
„Wolf-Heidenheim-Straße“. Walk appr. 10 min straight ahead  
from there to reach Stützeläckerweg.



**GroupEAD Europe S.L. Business Premises Germany**

Stuetzelaeckerweg 12 - 14

60489 Frankfurt am Main

GERMANY

Phone: +49 69 78072 871

[info@groupead.com](mailto:info@groupead.com)