

# AICM and AIXM Training Class

## Washington DC

December 13-14, 2005

Day 1 – Start at 9:00 AM

### Management Seminar

- *Welcome and introductions*
- *Aeronautical Information standardization overview*
  - *Current and future trends in AIM management*
  - *AIS modernization*
  - *AIS data standardization – AICM and AIXM*
  - *AICM an AIXM History and Overview*
- *Aeronautical Information Engineering for Managers*
  - *Introduction to UML, Entity-Relationship and XML schema*
  - *Extending AIXM*
  - *GML*
  - *AIXM 5 design and validation*

\*\*\* *Coffee Break* \*\*\*

- *AICM and AIXM concept overview*
- *Case studies for AICM and AIXM*
  - *Digital AIP*
  - *NOTAMS and temporary changes*
  - *Flight planning (Pilot Information Bulletin)*
- *Summary and management discussion*
  - *Summary*
  - *Getting started in AIXM*
  - *Open discussions on AIS issues*

\*\*\* **Lunch** \*\*\*

- *Information engineering background and review*
  - *Introduction to Entity-Relationship models*
  - *Exercise – Practicing E-R and UML modeling*
  - *Introduction to XML and XSD*
  - *Exercise continued – Practicing XML*
- *AIXM Resources*
  - *Primer*
  - *Web pages and E-R reports*
  - *Computer based training*

\*\*\* Coffee Break \*\*\*

- Aerodrome and Heliport
  - Concept
  - Data Model and XML Encoding
  - Exercise – Encode an airport in AIXM XML
- Timetable
  - Data Model and XML Encoding
  - Exercise – Encode timesheets
- NAVAID and Designated Point
  - Concept
  - Data Model and XML Encoding
  - Exercise – NAVAID E-R diagramming

Day 2 – Start at 9:00 AM (Actual start time determined by class participants)

- Enroute Routes
  - Concept
  - Data Model and XML Encoding
  - Exercise – Encode a route in AIXM XM
- Airspace
  - Concept
  - Data Model and XML Encoding
  - Exercise – Airspace aggregation, Airspace vertices

\*\*\* Coffee Break \*\*\*

- Approach and Departure Procedures
  - Concept
  - Data Model and XML Encoding
  - Exercise – Mapping AICM to Approach Plate
- Organization and Services
  - Concept
  - Data Model and XML Encoding
  - Exercise – E-R diagramming

\*\*\* Lunch \*\*\*

- Aeronautical data mapping to AICM/AIXM
  - Examples provided by class participants...
- Case Study – TFR NOTAMs
- Case Study – MIA design

\*\*\* Coffee Break \*\*\*

- **(Start at 2:30 PM )** Future AICM and AIXM Activities
  - Goals for AIXM 5
  - AIXM 5 White Paper presentations
  - AIXM 5 Public design review
- Wrap-up and feedback