

Course content for FPD Charts Training

A. Session 1

1. Introduction of Aeronautical Charts.
2. Development of Aeronautical Charts.
3. Types of Aeronautical charts (IFP) i.e. Conventional and RNP.
4. Basics of Instrument Flight Procedure Cartography.
5. Basics of GIS and its applications for aeronautical charting.
6. Basics of ArcMap and related tools.
7. Basics of AutoCAD map 3D and related tools.
8. Digital cartography and its methods.

The first session covers the following:

- (i) Introduction to Instrument Flight procedure charts: What are IFP charts and how they are interpreted including the types and components of IFP charts.
- (ii) The use of necessary GIS software and its important tools that are used to produce ICAO standards charts.

B. Session 2

1. Brief about Conventional Charts
2. Brief about PBN Charts.
3. Briefing of VOR Charts
4. Briefing of RNP Charts
5. Briefing of NDB Charts
6. Briefing of ILS Chart
7. Briefing of SID Charts
8. Briefing of STAR Charts
9. Briefing of other IFP Charts

The second session covers the types of IFP charts.

C. Session 3

1. Brief about Georeferencing
2. Brief about Contours and its uses for IFP charts.
3. Briefing of Data frames, Projection system and Layouts
4. Briefing old to new data conversion
5. Briefing of common standard which is using for the different charts
6. Briefing of file storage. (like mxd and dwg)
7. Briefing of pdf production and output of charts
8. Briefing of grid adjustment and its standards for charts
9. Briefing of the layout preparation and file database standards.
10. AutoCAD to GIS data conversion

The third session covers the use of GIS software and how to make a layout for the different charts.

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D. Session 4

1. Brief about AIP supplements
2. Brief about eAIP.
3. Briefing about publication of charts
4. Briefing about ICAO Annex 4.
5. Briefing about ICAO Doc 8697.
6. Briefing about Enroute charts
7. Briefing about DGCA CAR's

The fourth session covers the publications by ICAO for aeronautical charts.

E. Session 5

1. Compilation of all previous 4 sessions
2. Question and answer session
3. A test organized by trainer for the formal evaluation of trainees.

The fifth session is dedicated for questions of the Trainees and for conducting a formal test for the evaluation of the trainees.