



Asia-Pacific Flight Procedure Programme

Course Description :

PBN Procedure Design Course

1. Pre-requisite

Be proficient in the English language. Have experience in a field providing knowledge of aircraft operations or with a background in conventional procedure design

2. Course description

This course provides training in the theory and practice of the specifications contained in ICAO Doc 8168 (Procedures for Air Navigation Services Aircraft Operations , PANS-OPS) Volume II Sixth edition 2014 Part II “PERFORMANCE-BASED NAVIGATION PROCEDURES”. In this course, Participants will learn these parts about the PBN procedure design:

Underlying principles : RNAV concepts, GNSS RNAV, DME/DME RNAV and VOR/DME RNAV ,

General criteria: Minimum length of a segment, Turn protection and obstacle assessment, RNAV T- or Y-bar procedure, Terminal arrival altitude (TAA), Navigation database coding,

Procedure construction: Departure procedures, Arrival and approach procedures, Non-precision approach procedures, APV/Barometric vertical navigation (BARO-VNAV), En-route procedures and Holding procedures,

Publication: Publication and charting.

Besides covering the latest specifications in these areas, several guest instructors will be invited to give lectures about **CDO**(Continuous descent operation) and **Quality assurance** for the procedure design.

3. Teachers

ICAO APAC Regional Sub Office Procedure Design Instructors and invited Guest Instructors

4. Who should attend

IFP designers, safety managers, inspectors and technicians who are involved in IFP design.

5. Pedagogical format

Theoretical lectures, Case study, Group exercises and discussions

6. Duration

14 days (3 weeks).

7. Course validation

Progress Test 1、 Progress Test 2 and Group Exercises