



ICAO

International Civil Aviation Organization  
African Flight Procedure Programme

**PBN Flight Procedure Design Training Course  
Nairobi, Kenya, from 2 to 27 February 2026**

**Training Programme**

The course will cover the Performance-Based Navigation (PBN) concept, RNAV principles, general design criteria, as well as the computation and application of criteria for PBN departures, arrivals, and approach procedures. Training will also address Approach Procedures with Vertical Guidance (APV Baro-VNAV), an overview of emerging operational concepts such as Continuous Climb Operations (CCO) and Continuous Descent Operations (CDO), and considerations for aeronautical publication.

The programme consists of theoretical lectures supported by practical laboratory exercises. The lectures provide detailed explanations of the regulations and criteria contained in ICAO Doc 8168 (PANS-OPS) and Doc 9906 (Quality Assurance Manual), while the laboratory sessions reinforce the theoretical elements through applied exercises using simplified environments.

**Agenda item 1: General:**

- Fundamental principles of instrument flight procedure design;
- Overview of general criteria;
- Core design principles;
- Computation methodologies and application logic.

**Agenda item 2: PBN design criteria:**

- Design of PBN departure procedures;
- Design of PBN arrival trajectories;
- LNAV approach procedures;
- Holding pattern design in a PBN environment;
- ILS transition design, APV Baro-VNAV procedures;
- Design considerations for departure trajectories.

**Agenda item 3: Theoretical lectures:**

- Presentation and detailed explanation of criteria contained in ICAO Doc 8168 (PANS-OPS);
- Presentation and detailed explanation of requirements outlined in ICAO Doc 9906 (Quality Assurance Manual).

**Agenda item 4: Laboratory exercises:**

- Practical application of foundational regulatory concepts in a simplified design environment.

**Agenda item 5: Side lectures:**

- Additional briefings on topics related to PANS-OPS and contemporary procedure-design practices.

**Agenda item 6: Course output:**

- Formative assessments to evaluate understanding and application of course content.