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| ICAO | **International Civil Aviation Organization**<br>African Flight Procedure Programme |

**PANS-OPS Flight Procedure Design Initial Training Course**
**(2 - 30 November 2022)**

**AGENDA**

The course topics include general criteria, computation or design principles, design criteria for arrival procedures, NPA approach and holding pattern based on conventional navaids (NDB, VOR, VOR-DME), ILS approach and departure procedures. Theoretical lectures are consisting of presentation and explanation of the rules and principles described in Doc 8168 OPS/611 (PANS-OPS) and 9906 (Assurance Quality Manual). Laboratory exercises are conducted to enforce the theoretical input, on basic use of the regulation concepts of a simplified environment.

**Agenda item 1: General on flight procedures and general principles:**

- Definitions, abbreviations, acronyms and units;
- Terminal area fixes;
- Turn area construction;
- Quality assurance.

**Agenda item 2: Design criteria:**

- Departure procedures;
- Arrival and approach procedures (non-precision);
- Precision approaches;
- En-route criteria;
- Holding patterns (Conventional holdings));

**Agenda item 3: Theoretical lectures:**

- Presentation and explanation of the rules and principles described in Doc 8168-OPS/611 (PANS OPS); and
- Presentation and explanation of the rules and principles described in Doc 9906- (Quality Assurance Manual).

**Agenda item 4: Laboratory exercises:**

- Practical applications of the design criteria in a simplified environment.

**Agenda item 5: Additional lectures:**

- Additional information provided on PANS-OPS related subjects (charting, flight procedure identification naming convention, etc.).

**Agenda item 6: Output:**

- Formative assessment.