

## **Annex A**

### **AGENDA**

#### **PANS-OPS PBN Flight Procedure Design Course**

04 to 29 November 2019

The course topics include PBN concept, RNAV principles, general criteria, computation or design principles, design criteria for PBN departure and arrival trajectories, approach procedures with vertical guidance (APV, Baro VNAV), an overview of new concepts (CCO/CDO) and publication. Theoretical lectures are consisting of presentation and explanation of the rules and principles described in Doc. 8168-OPS/611 (PANS/OPS) and 9906 (Quality Assurance Manual). Laboratory exercises are conducted to enforce the theoretical input, and application of basic regulations.

##### **Item 1: General overview:**

- ✚ General principles;
- ✚ General criteria;
- ✚ Design principles; and
- ✚ Computation principles.

##### **Item 2: PBN design criteria:**

- ✚ Arrival trajectories;
- ✚ LNAV approach;
- ✚ PBN holding pattern;
- ✚ ILS connection, APV Baro VNAV; and
- ✚ Departure trajectories.

##### **Item 3: Theoretical lectures:**

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

##### **Item 4: Laboratory exercises;**

- ✚ Elementary use of regulation concepts in a simplified environment.

##### **Item 5: Side lectures:**

- ✚ Complementary information provided on PANS-OPS related subjects.

##### **Item 6: Outputs**

- ✚ Formative assessment.

##### **Item 7: Review of course**