

PANS-OPS Basic

Course Duration

30 working days

Minimum Required Attendance:

3

Course Location

Switzerland

Cost

18,500 €

Includes

Tuition fee, hotel, full board

Instructors

Ray Pearce

Lars Finken

Beat Zimmermann

Examination

Yes

Certificate

Yes

More Information

training@wx-systems.ch

The logo for WX Systems, consisting of the letters 'WX' in a bold, white, sans-serif font, centered within a blue rounded square.

Course Objective

At the end of this course, the participant will be able to develop Instrument Flight Procedures to ICAO Doc 8168 PANS OPS Criteria in his daily environment.

Participants

The student must prove an aviation background such as Air Traffic Controller, Commercial Pilot with instrument rating, Navigator, Flight Dispatcher or Systems Engineer. The student needs to provide a letter of reference from his national aviation body or an ICAO accredited organisation.

Course Description

The challenge and the responsibilities of a Procedures Designer are quite remarkable these days. Amongst the many documents providing criteria on how to develop instrument flight procedures, the ICAO document 8168 PANS-OPS is the most important. This 6-week course was designed to introduce this document to new Procedures Designers. Over 30 days, the students will learn how they document is structured, and how he will have to use it when they get back from the course and get their first mandate.

Furthermore he will learn all the criteria provided in PANS-OPS and do exercises on them. The student will go through a lot of calculations and formulas in order to not only KNOW the criteria but also to UNDERSTAND them and be able to apply them on a daily basis.

Basic Topics Covered

Non Precision Approach
Missed Approach
Conventional Departures
Circling Approach
Conventional Holdings

Intermediate Topics Covered

Circling with Prescribed Track
RNAV holdings
ILS Basic
ILS OAS
Collision Risk Model
MLS Function Principle
MLS Design Criteria

Advanced Topics Covered

RNAV/LNAV Approaches
RNAV Departures
Satellite Navigation Basics
Basic GNSS
SBAS
GBAS
APV/Baro-VNAV
RNP Concept and Criteria

Exercises

The whole theory is backed up with group exercises to enhance the learning effect. The group exercises and their presentation is part of the final examination. All exercises are made on a fictitious airport with a series of obstacle in strategic locations. The exercises can be done with the pencil and paper method or on a personal PC with a CAD software (no automated tool allowed).