

Ref. PANS3

RNAV Master Class

Course Duration

5 working days

Minimum Required Attendance:

2

Course Location

Switzerland

Cost

10,000 €

Includes

Tuition fee

Instructors

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 complex RNAV Instrument Flight Procedures.

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 aeredites organisation.

Course Description

The future of Instrument Flight Procedure Design is RNAV. There are more and more RNAV procedures implemented worldwide. With RNAV procedures, the complexity of the procedure specialist's task grows proportionally. The course has been created to focus on RNAV procedures design only and to ensure that the specialist is up to date with the latest technology and the latest criteria. The different RNAV sensors will be used for creating exercises and the advantages/disadvantages of each sensor will be evaluated in the group. The course is aimed at both experts with a basic knowledge of RNAV Procedure Design and "RNAV novices".

Basic Topics Covered

RNAV History
RNAV Sensors
RNAV Advantages/Disadvantages

Intermediate Topics Covered

VOR/DME RNAV
DME/DME RNAV
Basic GNSS
The RNP Concept
RNAV En-Route

Advanced Topics Covered

APV/Baro - VNAV
SBAS Departures
GBAS Approach Procedures
RNAV Holdings
RNP Holdings

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 obstructions in strategic locations. The exercises can be done with the pencil and paper method or on a PC with a CAD software (no automated tool allowed.)