

# Procedure Design with TERPS Software

## Course Duration

5 working days

## Minimum Required Attendance:

4

## Course Location

Switzerland

## Cost

10,000 €

## Includes

Tuition fee, hotel, full board

## Instructors

Ray Pearce

## Examination

Yes

## Certificate

No

## More Information

training@wx-systems.ch

The logo consists of the letters 'WX' in a bold, white, sans-serif font, centered on a blue rounded square background.

## Course Objective

At the end of this course, the trainee will be able to perform a complete procedure design by using the WX TERPS® software. Going through all different stages, starting from entering the database and ending by producing the chart for this design to be published.

## Participants

The trainee must demonstrate that they have attended an FAA TERPS course or ICAO PANS-OPS course and provide references of operational experience. Furthermore they must demonstrate proficiency in the use of AutoCAD software.

## Course Description

Aircraft are equipped with modern multi-sensor navigation systems, and TCAS communicating with each other; ATC uses the latest radar display technology, short term collision avoidance systems, therefore Instrument Flight Procedure Design has to keep up. Today's challenge in procedure design makes it important to use the power of computers, digital terrain and obstacle databases for creating terminal procedures. This course will show all steps in creating Instrument Flight Procedures using a procedure design software tool when complies with FAA criteria. The course is structured in a progressive way and will show the trainees what functions they have to use to produce a successful design of various procedures, such as NDB, TACAN, ILS/DME, ILS surfaces, and RNAV GPS with complete areas Initial, Intermediate, Final, Missed approach and Holding as well.

## Basic Topics Covered

- Installation of the software system
- First launch of the system
- Structure of the system
- Automation in procedure design

## Intermediate Topics Covered

- Geodetic issues
- Import of databases
- Tools (calculator, airport reference point, slant range)
- Terminal Area Fixes
- Non-precision approach
- Visual approach-circling areas
- Hold with different templates

## Advanced Topics Covered

- ILS - precision obstacle clearance surface
- ILS - glide path qualification surface
- ILS - obstacle free area
- RNAV non-precision approach
- RNAV - GPS
- RNAV - TAA, ATRK / XTRK

## Exercises

Trainees will experience both Team and Individual exercises. Team exercises, where the instructor goes through a complete design on the screen in front of the trainee and the trainee follows and executes all functions with their own PCs step by step. Subsequently trainees will perform exercises individually on their PCs. The exercises are very important part of this course, because only practical experiences will allow the designer to use the tool efficiently.