

WXGeo Basic

Course Duration

3 working days

Minimum Required Attendance:

3

Cost

3000 €

Instructors

Dr. Martin Rayson

Examination

Yes

Certificate

Yes

More Information

training@wx-systems.ch

Course Objective

At the end of this course, the participant will have a good knowledge in how to use the WXGeo™ Software.

Participants

The course is open to individuals who have attended the Wx “Introduction to Geodesy” Training Course (REF GEO1).

Course Description

The integrity and reliability of navigation and positioning data should always be of paramount importance. Decisions are routinely made with spatial data, often without a second thought for where the data has come from, or its likely accuracy. An incorrect ellipsoid, or incorrect datum transformation parameters, can potentially lead to errors in coordinates of hundreds of metres. The implications of this when designing instrument approach procedures or producing aeronautical charts are obvious.

With the use of GPS now the accepted positioning standard, the integration of newly acquired survey data with legacy data must be carefully treated to ensure that all data is referenced to the same horizontal and vertical geodetic datums.

Basic Topics Covered

Introduction to WXGeo™
 WXGeo™ Menu
 Different Coordinate Systems

Intermediate Topics Covered

Coordinate Reference Systems
 Datums and their Historical importance

Advanced Topics Covered

Map Projections
 Error Analysis
 GNSS
 Measures of Quality
 Basic Statistics
 Statistical Testing

Exercises

This course consists of interesting software exercises.
 Further practical experience is gained with transformation exercises.