

Geomatica OrthoEngine

Duration: 3 days

Prerequisite: None

The Geomatica OrthoEngine course is designed for new and experienced users of remote sensing and digital photogrammetry software. In the first two days participants will learn how to set up projects, collect GCPs and tie points, view imagery in 3D, extract features in 3D, orthorectify and mosaic image files manually and automatically. Participants will also be introduced to OrthoEngine component batching within Geomatica Modeler to automate some of the above tasks. On the third day participants will choose two workbook exercises with specific workflows and data types of interest.

DAY 1

- Setting up satellite and airphoto projects
- Collecting GCPs
- Collecting stereo GCPs
- Automatic and manual tie point collection
- Calculating the sensor model
- Generating epipolar images
- DEM extraction from stereo imagery

DAY 2

- Anaglyph 3-D visualization of stereo imagery (glasses provided)
- 3-D feature extraction
- Ortho image generation
- Manual color balancing, cutline selection, and mosaicking
- Automatic color balancing, cutline selection, and mosaicking
- Using Modeler to batch process specific OrthoEngine tasks (CDREAD, automatic image registration, GCP refinement, ortho generation, and automatic mosaicking)

DAY 3

Course participants select two to three application exercises from the workbook to complete with the instructor's assistance. The application choices are:

- Block RPC modeling with QuickBird imagery
- DEM extraction and editing using ASTER imagery
- Digital airphoto (UltraCam) block adjustment
- Digital airphoto using Airborne GPS (ABGPS) as initial approximation
- Toutin's Rigorous model for SPOT imagery
- Non-referenced image mosaicking
- Polynomial correction and mosaic only projects

For more information or to register, contact:

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