

Surveying, Mapping and Terrain Modeling Course Outline

This course will be of interest to professionals involved in surveying, mapping and terrain modeling. Emphasis will be placed on applying Terrain Tools® to solve a variety of surveying, mapping and terrain modeling problems. Topics include, survey notes entry, map production, georeferencing, drafting, terrain modeling, contouring, profiles, grading, earthworks, and creation of plan/profile sheets.

Surveying, Mapping and Terrain Modeling
Terrain features, points, bit maps and labels
Selecting items and performing operations (delete, copy, move, size, rotate).
Import features from several file formats (DXF, ASCII, Traverse, Bitmap, and Shp...).
Lat/Lon coordinates
Coordinate Projections (UTM, State Plane etc....)
Using the mouse and keys to create and edit features
Generation of a map containing imported (surveyed and scanned), and reconcile coordinate systems
Rubbersheeting images
Generate a terrain model from elevation data and display cross sections and contours. This can be the built road DXF or DWG created in the Location Design exercises or other topographic data
Creating TIN models, Maximum side length, Void areas, Negative areas and breaklines
Feature Properties; Modeled, 3D, Breakline etc.
TIN surface display of elevation, slope, aspect and light source
Import ASCII points and creation of a TIN and contours
Troubleshooting errors in the terrain
Design in the Profile Window
Projected and Intersected features
3D Window (tool for visualization and error management)
Labels



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