

GIS / Mapping Applications with AutoCAD Map – 1.0 Hours

Workshop Description

Summary

The AutoCAD® Map functionality within AutoCAD® Civil 3D®, Land Desktop and Map 3D provides a very powerful and underutilized solution for Geographic Information Systems (GIS). This class explores how surveyors can utilize the GIS components of the Autodesk® products to capture GIS data and new opportunities, without investment in new software. The class will explore basic definitions of GIS concepts, and examine concepts, such as data sources, data types and spatial analysis – all within the framework of actual survey/GIS projects prepared and delivered by the instructor. The class will examine how field data can be brought into a GIS system created in AutoCAD. The class will then explore practical GIS applications using Map to accomplish the creation, editing, analysis and presentation of data in GIS projects.

Topics and Schedule

AutoCAD Map Overview

- GIS Data Concepts
- AutoCAD Map Concepts
- Setting Up 64-Bit Map to Work with Data Stores

Using AutoCAD Map with Survey Data

- Using Survey Data with GIS Data Attachment Concepts
- Creating a GIS Data Store in AutoCAD Map
- Linking and Attaching GIS Data to Objects in AutoCAD Map
- Using AutoCAD Map for Data Analysis
- Delivering GIS Data from AutoCAD Map Projects
- Importing and Editing GIS Data Using AutoCAD Map

Learning Objectives

1. Participants will be able to describe GIS data concepts in relation to the processing of survey data as illustrated using the sample survey project used in the course.
2. Participants will be able to describe how GIS solutions store data as illustrated using the sample survey project used in the course.

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Learning Objectives (Continued)

- Participants will be able to describe techniques for the import and editing of GIS data as illustrated using the sample survey project used in the course.
- Participants will be able to describe techniques for the presentation and delivery of GIS data as illustrated using the sample survey project used in the course.

| GIS / MAPPING APPLICATIONS WITH AUTOCAD MAP – ONE HOUR | |
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| Overall Course Length | 1.0 Hours |
| Instructional Time | 1.0 HOURS |
| PROFESSIONAL DEVELOPMENT HOURS (PDHs) | |
| New York State Land Surveyors | 1.0 PDHs |
| New York State Professional Engineers | 1.0 PDHs |



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