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.
Learning Objectives (Continued)

3. 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.

4. 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.

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<th>GIS / MAPPING APPLICATIONS WITH AUTOCAD MAP – ONE HOUR</th>
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<td>Overall Course Length</td>
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PROFESSIONAL DEVELOPMENT HOURS (PDHs)

- New York State Land Surveyors: 1.0 PDHs
- New York State Professional Engineers: 1.0 PDHs

This course is a registered Continuing Education class with the AIA. Courses taught by CivilTraining, LLC meet continuing education/professional development requirements for Alabama, Delaware Professional Engineers, Georgia, Illinois, Kentucky, Michigan, Missouri, Nevada, New Mexico, Ohio, Pennsylvania, South Carolina, Tennessee Professional Engineers, Texas Professional Engineers, Utah, Virginia, and West Virginia. CivilTraining, LLC is an approved Florida Board of Professional Engineers Continuing Education Provider for Area of Practice courses. CivilTraining, LLC, License No. CE84, is an approved Continuing Education Provider by the Florida Board of Professional Surveyors and Mappers; this course, number 8286, is approved for 1.0 general continuing education credit. The Indiana State Board of Registration for Professional Engineers has approved this course for continuing education, and CivilTraining, LLC is an approved Land Surveyor Continuing Education Provider by the Indiana State Board of Registration for Land Surveyors Professional Licensing Agency. CivilTraining, LLC is an approved provider of Continuing Professional Competency (CPC) requirements for Maryland Professional Engineers and Land Surveyors, approved by the Maryland Boards for Professional Engineers and Land Surveyors. CivilTraining, LLC is an approved provider of Continuing Professional Competency courses for New Jersey Professional Engineers by the New Jersey State Board of Professional Engineers and Land Surveyors, and this course has received approval for Continuing Professional Competency for Continuing Education of Land Surveying by the New Jersey Board of Professional Engineers and Land Surveyors. CivilTraining, LLC, an approved sponsor of continuing education for Professional Engineers and Land Surveyors in New York State, NYS Sponsor #171, has received approval for the above-referenced PDHs for this course. CivilTraining, LLC is an approved sponsor for North Carolina engineers and land surveyors, approved by the North Carolina Board of Examiners for Engineers and Surveyors, and this course is approved for continuing education credits for Rhode Island Professional Land Surveyors by the Rhode Island State Board of Registration for Professional Land Surveyors. The Tennessee Board of Examiners for Land Surveyors has reviewed and approved CivilTraining, LLC’s training courses for continuing education.