AutoCAD Map 3D Training

Objectives
This AutoCAD MAP 3D course is designed to teach the fundamentals of AutoCAD MAP 3D to those with a working knowledge of AutoCAD. While some AutoCAD techniques will be discussed, AutoCAD is not the focus of the class. By the end of this 2-day course you'll have the tools you need to be productive with MAP 3D immediately.

Pre-requisites
A fundamental understanding of Civil Engineering, Land Surveying, and GIS principles is required. A fundamental understanding of the Windows XP and/or Windows Vista operating systems is strongly recommended.

AutoCAD MAP 3D Course Outline *(this outline may be customized, and may be taught in 4 hour segments)*

Government Regulations
GASB 34, SarBox, and CMOM

Understanding Coordinate Zones
NAD83, NAD27, State Plane, UTM, etc.

Terminology
GIS Terminology (DRG, DLG, Shapefile, Hypsograph, SDTS, etc.)
One Degree Blocks

Locating Freely Distributed GIS Data
How to Locate Freely Distributed GIS Data

Importing Data
How to Properly Import ArcView Shapefile Contours
How to Import Microstation Files
How to Download & Import NRCS Soil Data
How to Download & Import NGS Control (from NGS Datasheets)

Data Transformation
How to Import Data In One Coordinate System & Transform It To Another (e.g. UTM to State Plane)

MAP Creation and Stylizing
Connecting to Data via FDO
Creating Styles
Building Expressions

About the Instructor:

Scott McEachron, *co-author of "[Mastering AutoCAD Civil 3D 2010](#)," is a Subject Matter Expert for numerous firms on Engineering News-Record's list of Top 50 Design Firms, and has been an instructor at Autodesk University for 6 years. He is an Authorized Autodesk Instructor, an Autodesk Implementation Certified Expert and has over 20 years experience applying Autodesk design technologies within the civil engineering, land surveying, and geospatial industries.*

For over 10 years, Scott has provided professional technical services to Avatech Solutions, Alignex, Seiler Instrument, Total CAD Systems, DC CADD, and other Autodesk Resellers. Scott's classes are known for being comprehensive yet practical, and are known to cover software both old and new. Born and raised in Iowa, Scott currently resides near Fort Worth, TX.