AutoCAD Civil 3D Training Class

< TOPICS COVERED >

1. Civil 3D Interface

- Workspaces
- Toolspace
- Settings Tab
- Prospector
- Drawing Settings
- Simple CUI
- Menus
- Toolbars

2. Terrain Modeling

- Surface Creation
- Delaunay Triangulation and TIN
- Creation
- Importing ASCII file
- Object Styles
- Label Styles
- Breaklines (Feature Lines)
- Feature Line Tools
- Grading Tools
- Export LandXML

3. Data Shortcuts

- Surface Data Shortcuts
- Terminology
- Workflow
- Working Folder
- Understanding "The Project"
- Data Shortcuts (Procedure)
- Create Data Shortcuts
- Create Data references
- Editing Object Data
- Updating references
- Data shortcut editor

4. Alignments

- Alignment Creation
- By layout
- By polyline
- Alignment labels
- Alignment Label Sets
- Editing alignment geometry

5. Profiles & Profile Views

- Profile Creation (Existing)
- Existing Ground
- Profile View Creation
- Profile View labels
- Troubleshooting labels
- Profile Creation (Proposed)
- Profile Layout
- Layout tools
- Editing profile geometry via grips
- Editing profile geometry via the advanced view

6. Corridor Modeling

- Concepts
- Terminology
- Assemblies & Subassemblies
- Subassembly help
- Links, points, and shapes
- Code Set Styles
- Naming conventions
- The first assembly
- Modifying assembly
- Modifying subassembly
- Modifying parameters
- Creating a Corridor
- Targets
- Daylight
- Creating a Corridor Surface
- Corridor Surface Border

7. Cross Sections

- Concepts
- Terminology
- Creating Sample Lines
- Sample Line Groups
- Sampling Sections
- Code set styles in cross sections
- Section view styles
- Quantities
- Section volumes

8. Introduction to Pipe Networks

- Terminology
- Topology
- Pre-Design Considerations
- Uphill design
- Flow line labels
- NULL Structures
- Styles
- Plan styles
- Profile Styles
- XS Styles
- Label Styles
- Proper workflow methodology

9. Sanitary (wastewater) & Storm Networks

- Network creation
- Manipulating sites
- Defining proper alignments
- Defining proper networks
- Creation of network vs. creation of a "run"
- Editing pipe networks
- Modifying part sizes in - Partbuilder
- Network interference

10. Plan Production

- Plan Production for Plan & Profile sheets
- Harnessing Plan Production tools for automatic cross section sheet production (e.g. typical DOT section sheets).

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.