InRoads Site Training Class

< TOPICS COVERED >

1. Operation
- InRoads versions and CAD platforms
- Licensing and license name requirements
- Starting InRoads from within your CAD application
- Programming function keys to load InRoads
- Learn about settings files
- Interface settings
- Project defaults
- Loading and saving InRoads data files

2. Managers
- Features and the Managers
- The Symbology Manager
- The Feature Style Manager
- The Preference Manager
- Style Lock
- Feature Filters

3. Surfaces
- TIN s, TTN s, DEM s, & DTM s
- Extracting a portion of a surface
- Draping elements onto a surface
- Editing DTM s
- Changing feature properties
- Importing graphic data
- Importing text data
- Importing Station, offset, elevation data
- Importing ASCII files
- Contour data and inferred breaklines
- Exporting surfaces
- Transforming a surface
- Merging surfaces

4. Features
- Reviewing and/or changing feature properties
- Excluding a feature from triangulation
- Duplicate features   renaming, replacing, appending
- Editing features
- Creating/Viewing features

5. Site Design
- Review of design surface commands
- Transverse features
- Longitudinal features
- Draping & elevation adjustments
- Generate sloped surface command in detail
- Surface utilities
- Edit surface
- Intersecting with a surface
- Slope deviation

6. Geometry
- Geometry by graphic elements
- Geometry by points
- Station definition
- Station shifts horiz & vert
- Station equations
- Transforming geometry
- Transposing alignments

7. Horizontal Alignments
- Alignment Styles
- Geometry symbology manager
- Geometry point manager
- Annotation options
- Viewing geometry

8. Vertical Alignments
- Creating v. alignments by points
- Creating a profile for vert design
- Creating a vertical alignment

9. Templates
- Layer (surface) properties
- Transition control points and feature creation
- Transition control points & template segment properties
- Editing template segment lengths and slopes
- Adding/removing template segments
- Redefining transition control point names
- Chord height tolerance
- Copying templates between libraries

10. Roadway Modeling
- Modeling Interval
- Chord height tolerance
- Using express modeler
- Placing a feature into a DTM

11. Decision Tables
- Understanding decision tables
- Using tables with your templates
- Decision table rules
- Target blocks
- Target groups
- Target options
- Defining benching
- Backtracking
- Temporary points
- Importing from Graphics
- Applying decision tables

12. Profiles
- Surface Symbology
- Defining offsets, offset symbology, & offset display
- Adding, & removing graphics
- Projection of features to a profile
- Profile labeling
- Profile annotation
- Profile reports

13. Cross Sections
- Introduction
- Surface Symbology
- X-section sources & planimetrics
- Graphical edits to a X-section
- Labeling commands
- Annotation commands
- Cross section viewer & reports

14. Evaluation
- Surface area
- End area volume corrections for curvature

15. Application Add-Ins
- Active project settings
- Generate grade contour
- Hydrology & Hydraulics tools

About the Instructor:

Dan Calistrat *is a licensed professional engineer in 6 states and has been actively practicing for the past 18 years. After engineering for the land development community, Dan joined GEOPAK where he was instrumental in the development, certification, and training of Bentley civil products. After nearly a decade at GEOPAK, Dan left to implement Bentley software on some of the largest construction projects in the United States.*

Dan founded DTM Solutions where he consults with all size firms to make their transition and integration to civil engineering software as seamless as possible. His vision for the firm is based on providing billable solutions to clients in need of civil engineering software training.

Dan holds a B.S. degree in Civil Engineering from Texas A&M University and is an active member of the American Society of Civil Engineers.