GEOPAK Drainage Training Class

TOPICS COVERED

1. Project Setup

__ The main project commands
__ Setting project preferences
__ The drainage library
__ Import & export data
__ Import & export graphics
__ A full list of every file type

2. Drainage area design

__ SCS method area design
__ Rational method area design
__ Subareas and 'C' values
__ Soil classification 'CN' values
__ Modifying drainage areas
__ Deleting drainage areas
__ Renaming drainage areas
__ Updating drainage areas

3. Node design

__ Curb inlet design
__ Grate inlet design
__ Slotted drain design
__ Curb & grate combo design
__ Junction design
__ Outlet design
__ Other type node design
__ Bottom node design
__ Relocating nodes
__ Deleting nodes
__ Renumbering nodes
__ Renaming nodes
__ Updating nodes
__ Node cells and points

4. Link design

__ Pipe design
__ Open channel design
__ Natural stream analysis
__ Modifying links
__ Deleting links
__ Renaming links

5. Network Tools

__ Adding networks
__ Modifying networks
__ Deleting networks
__ Activating networks
__ Renaming networks
__ Import & export networks
__ Network design
__ Network analysis

6. Profiles

__ Adding profiles
__ Editing profiles
__ Deleting profiles
__ Annotating profiles
__ Auto creating profiles
__ Registering profiles
__ Displaying profiles
__ Profile grids & labels
__ Working with reference files

7. Reports

__ Preset reports tool
__ Report builder tool
__ Report generator tool
__ Working with spreadsheets
__ Customization
__ Working with VBA tools
__ Linking reports
__ Updating reports

8. DTM Drainage Tools

__ Watershed maps
__ Drainage pattern maps
__ Upstream & downstream
__ Flow arrow maps
__ Low & high delineations
__ Ridge & sump line tools
__ Surface pond tool
__ Pond analysis tool

9. Miscellaneous Tools

__ 3D visualization
__ Annotating w/ D&C manager
__ Conflict finding & mitigation
__ Culvert design and analysis
__ Drawing structure X-sections
__ Export survey to drainage
__ Exporting to HEC__RAS
__ Labeling the plan view
__ Labeling the profile view
__ Miscellaneous utilities
__ Navigating the design
__ Global editing the design
__ Querying the design
__ Computing quantities
__ Routing calculations
__ Trenching computations
__ Outlet design tips & tricks
__ Profiles tips & tricks

9. Whitepapers

__ Existing amenities
__ Increasing productivity
__ Inlet spacing
__ Outlet design
__ Profile design
__ Pipe envelope
__ Using revised TIN files
__ Time of Concentration

10. Appendix

__ A list of every error message
__ Error message resolution
__ Glossary sections
__ Troubleshooting tips & tricks
__ Video tutorials
__ VBA customization

About the Instructor:

Dan Calistrat is a licensed professional engineer in 6 states and has been actively practicing for the past 23 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.