2024 Virtual Workshops – Session #4-1 Recorded 12/11/2024

This session from *That CAD Girl's 2024 Virtual Workshop Series* introduces participants to surface modeling and grading workflows in Carlson Software. The training covers building existing ground surfaces, using breaklines, creating 3D polylines, merging surfaces, and integrating GIS imagery for visualization.

Key Topics:

- Carlson Software surface modeling fundamentals
- Breaklines, boundaries, and triangulation (TIN) creation
- Field-to-Finish automation and 3D polyline generation
- Contour labeling, line-type generation, and cleanup
- Importing Google/NASA/USGS surfaces and merging TIN files
- Using GIS imagery and 3D flyovers for visualization

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 12/11/2024.

2024 Virtual Workshops – Session #3-4

Recorded 12/10/2024

This session from That CAD Girl’s 2024 Virtual Workshop series features Donnie’s in-depth training on Carlson’s Least Squares Adjustment tools for survey data analysis. The workshop covers interpreting reports, identifying blunders, understanding statistical tests, and applying best practices for boundary and DOT survey adjustments.

Key Topics:

- Carlson Least Squares Adjustment fundamentals
- Error analysis and residual interpretation
- Chi-square testing and blunder detection
- ALTA/NSPS accuracy standards
- Practical examples: boundary and DOT survey data

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This session was presented by Donnie Stallings on 12/10/2024.

2024 Virtual Workshops – Session #3-3, Recorded 12-10-2024

This virtual Carlson Survey workshop, led by Donnie Stallings an d hosted by That CAD Girl, introduced surveyors to the principle s of least-squares adjustment and the use of Carlson Survey’s SN ET module. The session covered theory, workflow setup, and pract

ical examples combining total-station and GPS data.

Key Topics:

- Introduction to least-squares adjustment theory
- History and development of Carlson Survey’s SNET (Survey Net)
- Practical setup and configuration of SNET projects
- Combining total-station and GPS vectors
- Error analysis, blunder detection, and ALTA/NC DOT workflows

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.
This session was presented by Donnie Stallings on 12/10/2024.

2024 Virtual Workshops – Session #3-2 Recorded 12/10/2024

This advanced Carlson Software workshop, led by Doug Aaberg, explored powerful Field to Finish tools and workflows for surveyors, including annotation automation, tree and pipe features, and special coding techniques. The session offered practical demonstrations and Q&A to help users streamline drafting, labeling, and data collection processes.

Key Topics:

- Carlson Field to Finish advanced features

- Annotation and MText automation
- Tree and pipe feature configuration
- Special codes, offsets, and templates
- Real-world Q&A on survey workflows

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This session was presented by Doug Aaberg on 12/10/2024.

2024 Virtual Workshops – Session#3-1 Recorded 12/10/2024

This virtual training session, led by Carlson Software expert Do ug Oberg, provided an in-depth walkthrough of the Field to Finish feature in Carlson Surv ey. Attendees learned how to automate drafting from field data, manage code tables, apply special codes, and streamline survey w orkflows from data collection to finished CAD drawings.

Key Topics:

- Introduction to Carlson Field to Finish
- Creating and editing code tables
- Using special codes (begin, end, PC/PT, jog, rectangle, jo in point number)
- Managing layers, linework, and symbols
- Handling point groups and reprocessing efficiency
- Q&A on practical field coding and data management

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This session was presented by Doug Aaberg on 12/10/2024.

2024 Virtual Workshops – Session #2-4 Recorded 11/20/2024

This advanced Carlson Software workshop covered 2D-to-3D conversion tools, drawing cleanup, and CADnet functions for converting and merging raster and vector PDFs. Attendees learned practical workflows for elevating contours, creating 3D polylines, digitizing plans, and integrating geotechnical data into construction modeling.

Key Topics:

- Carlson Civil and Takeoff 2D-to-3D tools
- Elevate and 3D Data menus: contour and polyline elevation
- CADnet for PDF import, raster/vector conversion, and image merging
- Geotech module for strata modeling and volume calculations
- Practical cleanup and modeling workflows

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This session was presented by Jennifer DiBona on 11/20/2024.

2024 Virtual Workshops – Session #2-3 Recorded 11/20/2024

This session from the 2024 Virtual Workshops series provides an in-
depth walkthrough of Carlson Takeoff and Takeoff Suite, focusing on setup, layer management, surface modeling, and quantity takeoffs. The instructor demonstrates workflows, cleanup strategies, and practical tips for construction modeling and estimating using Carlson software.

Key Topics:

- Overview of Carlson Takeoff and Takeoff Suite modules
- Comparison with Carlson Civil Suite
- Layer management, cleanup, and setup for takeoffs
- Creating and managing surfaces and subgrades
- Performing quantity takeoffs and topsoil calculations
- Using Carlson’s visualization and reporting tools

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 11/20/2024.

2024 Virtual Workshops – Session #2-2 Recorded 11/20/2024

This virtual workshop demonstrates Carlson Software’s Precision 3D Hydrology and RoadNet tools, showing how to design, analyze, and visualize stormwater systems within a CAD-integrated environment. The session covers intelligent TIN creation, watershed modeling, gutter spread analysis, and report generation for KYTC-compliant submittals.

Key Topics:

- RoadNet intelligent TIN and hydrology integration
- Dynamic CAD linking with Precision 3D Hydro
- Gutter spread and watershed analysis
- KYTC reporting and culvert design
- Training tools and hydrology simulation game

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This session was presented by Bruce Carlson on 11/20/2024.

Intro to Carlson Surfaces, Centerlines and Profiles

A Virtual Webinar Using Carlson Software – Learn to Build Surfaces and Profiles

This webinar provides a comprehensive introduction to building and managing surfaces, centerlines, and profiles in Carlson Survey and Civil. Participants learn best practices for configuration, surface modeling, breaklines, field-to-finish automation, and profile creation for road and utility design.

Key Topics:

- Building and validating surface models (TINs and contours)
- Using shrink-wrap boundaries and non-surface points
- Creating and editing centerlines (CL files)
- Generating and labeling profiles (existing, proposed, and utilities)
- Importing, merging, and inspecting surfaces from Google Earth or USGS

Descriptions, transcripts and other details of this recording have been AI-generated and may contain errors.

This session was presented by Jennifer DiBona on 07/16/2024.

2024 Virtual Workshops – Session #2-1 Recorded 11/20/2024

This session from the 2024 Virtual Workshops features Bruce Carlson demonstrating advanced hydrology workflows using Carlson Precision 3D and IntelliCAD. The presentation covers terrain modeling, watershed analysis, culvert design, and dynamic CAD integration for civil engineering and land development professionals.

Key Topics:

- Working with DGN and DWG files in Carlson and IntelliCAD
- Terrain modeling and hydrology setup in Precision 3D
- Automatic watershed and runoff coefficient calculation
- Culvert and storm sewer design with dynamic CAD updates
- Channel lining, headwalls, and stormwater flow analysis

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This session was presented by Bruce Carlson on 11/20/2024.