2024 Virtual Workshops: Session #4-1 Surface Modeling in Carlson Software Presenter: Jennifer DiBona

A Virtual Workshop Using Carlson Software – Build Accurate Surface Models

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 ha ve been AI-generated and may contain errors.

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

Introduction to Carlson Software – Settings, Setup, Configuration & Points

A Virtual Webinar Using Carlson Software – Learn to Configure Settings and Points

This introductory Carlson Software webinar, hosted by That CAD Girl, walks new users through key setup and configuration steps for Carlson Survey and Civil modules. It covers interface customization, project folder organization, configuration management and working with points and templates for consistent CAD standards.

Key Topics:

- Carlson Software interface and configuration basics
- Project and data folder setup
- Managing builds, updates and technical support
- Drawing templates and default settings
- Creating, importing and editing points

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This session was presented by Jennifer DiBona on 02/01/2024.

2024 Virtual Workshops: Session #3-4 Continuation of Adjusting YOUR Datasets with SurvNet
Presenter: Donnie Stallings

A Virtual Workshop Using Carlson Software – Review Least Squares Reports and Survey Control

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 Adjusting YOUR Datasets with SurvNet Presenter: Donnie Stallings

A Virtual Workshop Using Carlson Software – Adjust Survey Networks with SurvNet Least Squares

This virtual Carlson Survey workshop, led by Donnie Stallings and hosted by That CAD Girl, introduced surveyors to the principles of least-squares adjustment and the use of Carlson Survey's SNET module. The session covered theory, workflow setup and practical examples combining total-station and GPS data.

Key Topics:

- Introduction to least-squares adjustment theory
- History and development of Carlson Survey's SNET (Survey N et)

- Practical setup and configuration of SNET projects
- Combining total-station and GPS vectors
- Error analysis, blunder detection and ALTA/NC DOT workflow s

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This session was presented by Donnie Stallings on 12/17/2024.

Introduction to Carlson Software – Settings, Setup, Configuration & Points

A Virtual Webinar Using Carlson Software – Learn to Configure Settings and Points

This webinar introduces new and returning users to Carlson Software 2025, covering interface navigation, configuration defaults, project folder organization and drawing templates. Participants learn how to customize settings, manage data files and create reusable templates for consistent CAD standards.

Key Topics:

- Carlson Software 2025 interface overview
- Configuring default settings and project folders

- Creating and managing drawing templates
- Importing and displaying survey points
- Understanding object linking and data management

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This session was presented by Jennifer DiBona on 09/03/2024.

2024 Virtual Workshops: Session #3-2 Continuation of Advanced Carlson Survey and Field to Finish
Presenter: Doug Aaberg

A Virtual Workshop Using Carlson Software – Refine Field-to-Finish Survey Coding

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 Advanced Carlson Survey and Field to Finish

A Virtual Workshop Using Carlson Software – Automate Survey Drafting with Advanced Field-to-Finish

This virtual training session, led by Carlson Software expert Doug Aaberg, provided an in-depth walkthrough of the Field to Finish feature in Carlson Survey. Attendees learned how to automate drafting from field data, manage code tables, apply special codes and streamline survey workflows 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.

Introduction to Carlson Software – Settings, Setup, Configuration & Points

A Virtual Webinar Using Carlson Software – Learn to Configure Settings and Points

This webinar introduces new and existing Carlson Software users to key setup and configuration concepts, including interface customization, data folder management, drawing templates and point handling. Jennifer DiBona demonstrates how to optimize Carlson 2025 for efficient project organization and consistent

CAD standards.

Key Topics:

- Carlson 2025 installation and interface overview
- Configuration of general, project and drawing settings
- Creating and customizing drawing templates (DWT files)
- Managing points, coordinate files and text styles

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This session was presented by Jennifer DiBona on 08/06/2024.

2024 Virtual Workshops: Session #2-4 Continuation of Overview of Carlson Takeoff Suite modules Presenter: Jennifer DiBona

A Virtual Workshop Using Carlson Software – Elevate 2D Plans into 3D Takeoff Models

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

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

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

2024 Virtual Workshops: Session #2-3 Overview of Carlson Takeoff Suite modules – CADnet, Construction, Trench, GeoTech

Presenter: Jennifer DiBona

A Virtual Workshop Using Carlson Software – Start Takeoff and Site Modeling Workflows

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

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