2020 Virtual Workshop Session #1-5: Case Study – Q&A Project Overview of Using Carlson to Create Machine Control Models

A Virtual Workshop Using Carlson Software – Explore 3d breaklines, surface construction and grading checks

This virtual workshop, led by Walt Liles of Terrain Technology, provides an in-depth walkthrough of building GPS-ready 3D surface models using Carlson Civil and IntelliCAD. The session covers drawing preparation, data cleanup, layer management and model triangulation for machine control applications.

Key Topics:

- Carlson Civil and IntelliCAD setup for model building
- Data preparation and drawing cleanup
- Layer management and naming conventions
- Creating and editing 3D polylines and surfaces
- Exporting models for machine control (Topcon, Trimble)

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

This session was presented by Walt Liles on 12/15/2020.

2020 Virtual Workshop Session #1-3 Annotation Tips & Tricks for Land Surveyors

A Virtual Workshop Using Carlson Software – Explore Survey Line, Curve and Lot Annotation

This Carlson Software virtual workshop, led by Jeremy Taylor, demonstrates efficient methods for annotating subdivision plats in Carlson CAD. It covers manual and automated annotation, lot closure verification, line and curve tables and practical workflow tips for surveyors.

Key Topics:

- Carlson Software annotation tools and defaults
- Auto Annotate and line/curve table automation
- Creating and managing lot files and closure reports
- Area labeling and area tables for small lots
- Troubleshooting annotation issues and CAD cleanup

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This session was presented by Jeremy Taylor on 12/15/2020.

2020 Virtual Workshop Session #1-2 Overview of Carlson Software

A Virtual Workshop Using Carlson Software – Explore Carlson Survey and Civil Capabilities

This Carlson Software virtual training workshop, led by Scott Griffin and hosted by That CAD Girl, provides an in-depth walkthrough of Carlson Survey and Civil tools, focusing on Field-to-Finish workflows, coordinate file utilities, lot and road design and 3D modeling. The session demonstrates efficient CAD automation, data exchange with data collectors and integration with Google Earth for visualization.

Key Topics:

- Field-to-Finish setup with tree and pipe feature coding
- Legal description writer and dynamic labeling
- Construction stakeout and building offset tools
- LotNet subdivision design and reporting
- RoadNet design with intersections, cul-de-sacs and hammerh eads
- 2D-to-3D conversion, surface modeling and Google Earth ove rlays

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ve been AI-generated and may contain errors.

This session was presented by Scott Griffin on 12/15/2020.

2020 Virtual Workshop Session #1-1: Introduction & Welcome

A Virtual Workshop Using Carlson Software – Explore the Workshop Format and Carlson Training

This session opened the 2020 Carlson Software Virtual Workshop, introducing attendees to the event structure, instructors and logistics for the three-day training. The presentation covered session navigation, Q&A procedures, certificate details and special promotions for participants.

Key Topics:

- Workshop overview and logistics
- Instructor introductions and session previews
- Virtual booth and Q&A process
- Recording access and certification details
- Discounts, giveaways and maintenance renewals

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This session was presented by Jennifer DiBona on 12/15/2020.

2021 Virtual Workshops Session #4-5: Traverse Adjustment & Best Practices for Network Solutions

A Virtual Workshop Using Carlson Software – Learn Survey Network Adjustment and Annotative Scaling

This session from the 2021 Virtual Workshops series featured Doug from Carlson Software demonstrating advanced survey workflows using Carlson Survey and SurvCE/Carlson CNET. The training covered GPS vector processing, network adjustments, annotative text handling and subdivision design using LotNet.

Key Topics:

- GPS and vector data processing in Carlson CNET
- Network adjustment and chi-square testing
- Annotative text and symbol scaling in CAD drawings
- LotNet for subdivision and parcel layout
- Troubleshooting survey data and configuration migration

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This session was presented by Doug Aaberg on 12/14/2021.

2021 Virtual Workshops Session #4-4: Traverse Adjustment and Best Practices for Network Solutions with Carlson GNSS RTK Systems

A Virtual Workshop Using Carlson Software – Adjust Survey Networks and Verify Control

This virtual workshop session, led by Doug Aaberg and hosted by That CAD Girl, provides a detailed walkthrough of Carlson Survey tools for performing traverse adjustments, compass rule balancing and least squares network adjustments. The presentation includes practical demonstrations using real survey data, focusing on everyday workflows for field and office surveyors.

Key Topics:

- Carlson Survey's Edit Process Raw and Traverse Adjustment tools
- Compass Rule and Least Squares (SNET) adjustment methods

- Integrating RTK/GNSS data with EDM traverses
- Managing raw files, control points and error tolerances
- Practical field and office workflows for survey accuracy

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This session was presented by Doug Aaberg on 12/14/2021.

2021 Virtual Workshops Session #4-2: Advanced Field to Finish in Carlson Survey (continued)

A Virtual Workshop Using Carlson Software – Automate Trees, Pipes and Survey Linework

This virtual training session continues the Advanced Field-to-Finish workshop led by Doug Aaberg, focusing on Carlson Survey tools for automating legends, tree features and pipe networks. The session demonstrates practical workflows for survey data processing, symbol management and integration with Carlson Hydrology for plan and profile generation.

Key Topics:

- Field-to-Finish legend creation and symbol management
- Tree feature setup and automation
- Pipe feature and sewer network integration
- Carlson Hydrology module usage for plan/profile drawings
- Code table organization and substitution codes

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This session was presented by Doug Aaberg on 12/14/2021.

2021 Virtual Workshops Session #4-1: Advanced Field to Finish in Carlson Survey

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

This Carlson Software virtual workshop explores advanced field-to-finish survey coding, demonstrating core tools and settings that help surveyors and CAD professionals develop reliable project workflows. The session covers code table organization, offsets and curves, attributes and labels and practical checks that support consistent model and drawing output.

Key Topics:

- Code Table Organization
- Offsets and Curves
- Attributes and Labels
- Parking and Site Details

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This session was presented by Doug Aaberg on 12/14/2021.

2021 Virtual Workshops Session #3-4: Tips & Tricks for Site Grading

A Virtual Workshop Using Carlson Software – Learn SiteNet Grading, Takeoff and Surface Cleanup

This session from the 2021 Virtual Workshop series provides a detailed, step-by-step demonstration of grading, drawing cleanup and surface modeling techniques in Carlson Civil. It focuses on using LandXML, Civil 3D object imports and the SiteNet/Takeoff tools to create accurate surface models and calculate earthwork and material quantities.

Key Topics:

- Importing and managing LandXML and Civil 3D data

- Drawing cleanup and layer management best practices
- Building existing and design surfaces in SiteNet
- Performing topsoil removal/replacement and material takeoff calculations
- Troubleshooting proxy entities and nested blocks

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This session was presented by Jennifer DiBona on 12/09/2021.

2021 Virtual Workshops Session #3-3: Making Models from a Mess

A Virtual Workshop Using Carlson Software – Learn Grading and Making Surface Models from a Mess

This 2021 Virtual Workshop session, *Making Models from a Mess*, teaches Carlson Software users how to clean up and prepare messy CAD drawings for accurate surface modeling and grading. The session covers practical workflows for converting 2D linework into 3D data, managing layers and building balanced, constructible surfaces.

Key Topics:

- Converting 2D polylines and contours into 3D surfaces
- Cleaning and organizing CAD layers for modeling
- Grading workflows using Carlson Civil and Takeoff tools
- Handling curb lines, building pads and daylight projections
- Calculating cut/fill volumes and balancing earthwork

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This session was presented by Jennifer DiBona on 12/09/2021.