Surfaces and Breaklines – the Basics

A Virtual Webinar Using Carlson Software – Learn Surfaces and Breaklines Basics

This webinar provides a step-by-step introduction to creating and refining surface models in Carlson Software. It covers Essential workflows for checking elevations, defining boundaries, using breaklines and merging terrain data from multiple sources.

Key Topics:

- Surface modeling fundamentals in Carlson Survey and Civil
- Using breaklines and shrink-wrap boundaries
- Field-to-Finish automation and non-surface point managemen t
- Importing and merging Google Earth and NED elevation data

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 02/16/2023.

Survey Project from Field to Plotted Sheet

A Virtual Webinar Using Carlson Survey – Create a Plotted Survey Sheet

This webinar demonstrates how to take a survey project from raw field data to a finished plotted sheet using Carlson Survey 2023. The session covers importing points, configuring settings, creating boundaries, aligning deed data, building surfaces and producing final annotated drawings.

Key Topics:

- Carlson Survey 2023 workflow setup
- Importing and managing point files (control, topo)
- Deed entry, alignment and correlation
- Field-to-Finish automation
- Surface creation, contouring and plotting

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This session was presented by Jennifer DiBona on 09/14/2023.

2023 Virtual Workshop: Session #4-4 Overview of Carlson CADnet, SiteNet & Takeoff

A Virtual Workshop Using Carlson Takeoff – Calculate Site Volumes and Verify Surfaces

This Carlson Software virtual workshop demonstrates how to import PDF plans into CADnet, distinguish raster and vector content, merge images, calibrate plan scales and digitize contours, pads and spot elevations. It then explains how to clean engineering drawings for SiteNet, organize existing and proposed features, configure layer targets and define takeoff quantities and subgrade materials.

Key Topics:

- CADnet PDF import, image processing and raster-to-vector limitations
- Plan image merging, scale calibration and digitizing
- Working-drawing cleanup for estimating and model development
- SiteNet target layers, surface eligibility and TRG settings

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This session was presented by Jennifer DiBona on 12/06/2023.

2023 Virtual Workshop: Session #4-3 Overview of Carlson CADnet, SiteNet & Takeoff

A Virtual Workshop Using Carlson Takeoff – Prepare Drawings for Site Quantities

This virtual Carlson Software workshop demonstrates advanced SiteNet workflows for calculating material and dirt quantities, managing topsoil removal and replacement and performing drawing cleanup and 2D-to-3D data conversion. The session provides practical guidance for preparing accurate takeoff models and cleaning complex CAD drawings for construction and civil design.

Key Topics:

- Carlson SiteNet volume and material reports
- Topsoil removal and replacement setup
- Surface Inspector and Surface Tools
- 2D-to-3D Polyline conversion methods
- Drawing Cleanup and Layer Management
- LandXML export and machine control files

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This session was presented by Jennifer DiBona on 12/06/2023.

2023 Virtual Workshop: Session #4-2 Overview of Carlson Civil & Hydrology

A Virtual Workshop Using Carlson Hydrology – Design Pipe Networks and Detention Workflows

This virtual workshop, led by Mark Long of Carlson Software, provided an in-depth walkthrough of hydrology and pipe design tools within Carlson Civil and Hydrology modules. The session covered watershed setup, storm drainage design, pipe network creation and profile management for civil engineering projects.

Key Topics:

- Hydrology and watershed layer setup
- Storm drainage and pipe network design
- Surface modeling and volume balancing
- Inlet and structure libraries
- Sewer network settings and profile generation

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This session was presented by Mark Long on 12/06/2023.

2023 Virtual Workshop: Session #4-1 Overview of Carlson Civil & Hydrology

A Virtual Workshop Using Carlson Civil – Set Up RoadNet and Civil Design Models

This virtual training session, led by Mark Long from Carlson Software, provides an in-depth walkthrough of Carlson Civil's RoadNet module for roadway and site design. The class covers setup, surface modeling, templates, intersections, cul-de-sacs, knuckles and integration with hydrology and grading workflows.

Key Topics:

- Carlson RoadNet setup and configuration
- Creating and managing surfaces, templates and subgrades
- Handling intersections, cul-de-sacs and knuckles
- Layer discipline and hydrology integration
- Template point centerlines and super elevation design

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This session was presented by Mark Long on 12/06/2023.

2023 Virtual Workshop: Session #3-4 Overview of Carlson Survey, GIS and Point Cloud

A Virtual Workshop Using Carlson Point Cloud – Work with Public LiDAR Data

This Carlson Software virtual workshop, hosted by That CAD Girl, provided an in-depth demonstration of Carlson's Point Cloud module, lidar data integration and survey data processing workflows. The session concluded with updates on coordinate projection changes in 2024 and practical guidance on raw data editing and GPS processing.

Key Topics:

- Point Cloud module setup and lidar data workflows
- Creating and refining surface models (TINs)
- Integrating lidar, Google Earth and survey data
- Carlson 2024 projection and datum updates (NAD83 2011)
- Edit Process Raw Data and GPS base point handling
- Upcoming improvements in Carlson Serve PC, Serve Net and

- GNSS tools

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This session was presented by Jennifer DiBona and Doug Aaberg on 11/29/2023.

2023 Virtual Workshops: Session #3-3 Overview of Carlson Survey, GIS and Point Cloud

A Virtual Workshop Using Carlson GIS – Collect Survey Attributes with Field Data

This workshop session, led by Carlson Software's Doug Aaberg, provides an in-depth overview of the GIS and Point Cloud capabilities in Carlson Survey. The presentation demonstrates how to integrate GIS data with field-to-finish workflows, manage attribute data and import/export shape files for practical surveying and mapping applications.

Key Topics:

- Carlson GIS module setup and usage

- Field-to-finish integration with GIS attributes
- CRDB vs. CRD coordinate file formats
- Importing and labeling Esri shape files
- Using Serve PC for field data collection
- Managing line labels, monuments and attribute-based symbology

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This session was presented by Doug Aaberg on 11/29/2023.

2023 Virtual Workshop: Session #3-2 Overview of Carlson and What's New in Carlson 2024

A Virtual Workshop Using Carlson Civil – Create Lots, Roads, Profiles and Sheets

This 2023 Carlson Software virtual workshop, led by Scott Griffin, provides an in-depth demonstration of new and enhanced features in Carlson 2024. The session covers Lot Network, Road Network, Sheet Production, Profile Capture and Parking Network tools, showcasing practical workflows for surveyors, engineers

and CAD designers.

Key Topics:

- Lot Network setup and dynamic lot editing
- Road Network design and intersection handling
- Sheet production and profile management
- New Profile Capture command
- Parking Network and 3D design tools

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This session was presented by Scott Griffin on 11/29/2023.

2023 Virtual Workshops: Session #3-1 Overview of Carlson and What's New in Carlson 2024

A Virtual Workshop Using Carlson Software – Explore What's New in Carlson 2024

This virtual workshop, led by Scott Griffin and hosted by Jennifer, provided an in-depth overview of Carlson Software's 2024 updates and practical demonstrations of key CAD and

surveying tools. Topics included drawing cleanup, Google Earth integration, PDF import, BIM handling, field-to-finish workflows and point cloud processing.

Key Topics:

- Drawing cleanup and data preparation
- Google Earth and GIS imagery integration
- PDF import and vectorization using CADnet
- BIM and IFC/Revit file handling
- Field-to-Finish enhancements for trees, pipes and labeling
- Point cloud processing and AI-based feature extraction

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This session was presented by Scott Griffin on 11/29/2023.