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

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 #2-2 Continuation of Overview of Carlson Precision 3D Topo and Hydrology Presenter: Bruce Carlson

A Virtual Workshop Using Carlson Software – Model RoadNet Drainage for Precision 3D Hydrology

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.

2024 Virtual Workshops: Session #2-1 Overview of Carlson Precision 3D Topo and Hydrology
Presenter: Bruce Carlson

A Virtual Workshop Using Carlson Software – Design Drainage with Precision 3D Hydrology

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.

2024 Virtual Workshops: Session #1-4 Overview of Carlson Civil and Hydrology Presenter: Mark Long

A Virtual Workshop Using Carlson Software – Understand Civil and Hydrology Design Workflows

This Carlson Software virtual workshop, led by Mark Long, provided an in-depth overview of civil design and hydrology workflows using Carlson Civil and Hydrology modules. The session covered surface modeling, roadway design, storm drainage and sanitary sewer network creation, highlighting practical tools and new features in the 2025 release.

Key Topics:

- Civil design fundamentals and surface modeling
- RoadNet and roadway profile creation
- Hydrology and storm sewer network setup
- Sanitary sewer design automation
- Integration of pre- and post-construction surface models

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This session was presented by Mark Long on 11/19/2024.

2024 Virtual Workshops: Session #1-3 Overview of Carlson Point Cloud and Carlson Photo Capture

A Virtual Workshop Using Carlson Software – Process Point Clouds into CAD Models

This Carlson Software virtual workshop focused on using Carlson Point Cloud and Photo Capture tools to process drone and LiDAR data for surveying and mapping. Doug demonstrated workflows for creating, cleaning, classifying and extracting data from point clouds to produce accurate surfaces, contours and CAD

deliverables.

Key Topics:

- Carlson Photo Capture (cloud and standalone versions)
- Importing and managing LAS point cloud data
- Bare Earth filtering and classification
- Creating coordinate points, polylines and surfaces
- Automated feature extraction (curbs, parking lines, paint stripes)
- Integration with CAD and field-to-finish workflows

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This session was presented by Doug Aaberg on 11/19/2024.

2024 Virtual Workshops: Session #1-2 Overview of Carlson Survey and GIS Presenter: Doug Aaberg

A Virtual Workshop Using Carlson Software – Build GIS Survey Data Workflows

This virtual workshop, led by Doug Aaberg of Carlson Software,

provided a detailed walkthrough of the Carlson GIS module, demonstrating how to import, manage and utilize public GIS data within Carlson Survey and Civil. The session also covered creating GIS feature files, collecting field attributes and integrating imagery and LIDAR data to enhance survey projects.

Key Topics:

- Importing and configuring GIS data in Carlson Survey and GIS modules
- Creating feature and database files for attribute collection
- Using public data sources (MassMapper, NOAA LIDAR, FEMA, soils, wetlands)
- Labeling and managing GIS attributes in drawings
- Integrating Google Earth and GeoMap imagery
- Field data collection with Carlson SurvPC and Field-to-Finish setup

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This session was presented by Doug Aaberg on 11/19/2024.

2024 Virtual Workshops: Session #1-1 Overview of Carlson Software

Presenter: Jennifer DiBona

A Virtual Workshop Using Carlson Software – Learn Core Carlson Setup and Survey Workflows

This session kicked off the 2024 Virtual Workshops hosted by That CAD Girl, providing an introductory overview of Carlson Software and its CAD environments. The training covered setup, configuration, data management and practical demonstrations of key Carlson tools for survey, civil and land development workflows.

Key Topics:

- Carlson Software overview and interface setup
- IntelliCAD vs. AutoCAD platform options
- Managing configuration and project folders
- Importing Civil 3D and LandXML data
- Deed entry, lot layout and subdivision design
- Field-to-Finish workflows and surface modeling

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 11/19/2024.

Grading Tips & Tricks in Carlson Software

A Virtual Webinar Using Carlson Software – Learn to Improve Grading Workflows

This webinar provides a comprehensive walkthrough of grading workflows in Carlson Software, focusing on site grading, building pads, retaining walls and surface modeling. Attendees learn practical tips for using Carlson Civil and related modules to efficiently create, edit and balance grading designs.

Key Topics:

- Building pad creation and elevation methods
- Using 3D Polyline Offset, Design Pad Template and Surface Inspector
- Volume calculations and cut/fill color maps
- Retaining wall modeling and surface merging
- 2D-to-3D Polyline conversion and labeling techniques

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

This session was presented by Jennifer DiBona on 05/22/2024.

Dynamic Blocks for the Engineer and Surveyor

A Virtual Webinar Using IntelliCAD – Learn to Create Dynamic Blocks

This webinar, presented by Travis Maxwell and hosted by Carlson CAD Solutions, provides an in-depth tutorial on creating and using dynamic blocks in IntelliCAD 12.1. The session covers setting up a custom toolbar for block parameters and actions, stretch and visibility states and engineering uses such as scale bars and pond outlet structures.

Key Topics:

- Introduction to Dynamic Blocks in IntelliCAD 12.1
- Creating and customizing toolbars for block editing
- Using parameters, actions and visibility states
- Associative hatching and dimensioning
- Practical engineering applications (e.g., outlet structures, scale bars)

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

This session was presented by Travis Maxwell on 10/23/2024.

Tips & Tricks To Recover Corrupt Drawings In CAD With That CAD Girl

A Virtual Webinar Using IntelliCAD and AutoCAD – Learn to Recover Corrupt Drawings

This webinar by That CAD Girl demonstrates practical methods to identify, repair and recover corrupt CAD drawings using IntelliCAD and AutoCAD. It covers essential commands, workflows and free tools like DWG TrueView to maintain drawing integrity and prevent data loss.

Key Topics:

- Identifying non-corrupt vs. corrupt DWG files
- Using Purge, Audit, Recover and WBlock commands
- Handling Xrefs and layout recovery
- DWG TrueView and DWG Convert utilities
- IntelliCAD vs. AutoCAD recovery differences

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 06/12/2025.