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

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

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

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 walks new and existing users through essential setup and configuration steps, including user interface customization, project folder structures, default settings and point management. The session also covers creating templates, managing data files and best practices for maintaining consistent CAD environments.

Key Topics:

- Carlson Software user interface and configuration
- Project and data folder organization
- Default drawing and survey settings
- Creating and customizing drawing templates
- Importing and managing survey points

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This session was presented by Jennifer DiBona on 06/04/2024.

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 explains how to configure default settings, manage data and project folders and handle points within Carlson Survey and Civil modules. Participants learn how to customize the user interface, create templates and establish consistent standards for efficient CAD workflows.

Key Topics:

- Carlson Software interface and configuration
- Project and data folder organization
- Drawing templates and standards setup
- Importing and managing points (CRD files)
- Best practices for defaults, linking and backups

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This session was presented by Jennifer DiBona on 03/06/2024.

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

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

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 users through the essential setup, configuration and default settings for Carlson Survey and Civil modules. It covers user interface options, project folder structures, templates and point management to help new users optimize their CAD environment.

Key Topics:

- Carlson Software interface overview (menu bar, ribbon, too lbars)
- Default settings and configuration (Carlson Configure)
- Project folder setup and data management
- Drawing templates and customization
- Importing and managing points (CRD files)

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This session was presented by Jennifer DiBona on 10/08/2024.

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.

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 intermediate users to Carlson Software’s desktop environment, focusing on configuration, default settings, data folder organization and point management. Jennifer DiBona walks through practical setup steps, template creation and troubleshooting tips to improve workflow efficiency

in Carlson Survey and related modules.

Key Topics:

- Carlson Software interface overview (menus, ribbons, toolbars)
- Default settings and configuration (Carlson Configure)
- Data folder structures and project organization
- Template creation and management
- Importing and managing points (CRD files)
- Text styles and display settings

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This session was presented by Jennifer DiBona on 05/02/2024.

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.