2024 Virtual Workshops – Session #2-1 Recorded 11/20/2024

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

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

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

2024 Virtual Workshops – Session #1-4

Recorded 11/9/2024

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 Recorded 11/19/2024

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 c

reating, 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 Recorded 11/19/2024

This virtual workshop, led by Doug Oberg 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 Mark Long on 11/19/2024.

2024 Virtual Workshops – Session #1-1 Recorded 11/19/2024

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

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This session was presented by Jennifer DiBona on 11/19/2024.

Fast Track to Carlson Takeoff – Session #2-3 Recorded 01/25/2024

This recorded training session covers advanced techniques in Car lson Takeoff, focusing on digitizing, scaling, and building accu rate 3D surfaces from 2D plans. The instructor demonstrates prac tical workflows for importing PDFs, setting control points, crea ting layers, and elevating linework for construction takeoff and modeling.

Key Topics:

- PDF import and scaling setup
- Layer management and control points
- Digitizing contours, curbs, and building pads
- Elevating 2D polylines to 3D
- Modeling surfaces and managing breaklines

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This session was presented by Jennifer DiBona on 1/23/2024.

Fast Track to Carlson Takeoff – Session #2-2 Recorded 01/25/2024

This training session provides an in-depth walkthrough of Carlson Takeoff's Trench and CADNet modules, demonstrating how to input trench networks, create templates, calculate quantities, and import or process PDFs for takeoff and modeling. The instructor also covers practical workflows for converting raster and vector data, merging images, and extracting linework from PDFs for construction modeling.

Key Topics:

- Carlson Trench Module setup and workflow
- Creating trench templates and calculating trench quantities
- Understanding raster vs. vector PDFs
- Using CADNet to import, merge, and convert PDFs
- Extracting linework and spot elevations for modeling

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This session was presented by Jennifer DiBona on 1/25/2024.

Fast Track to Carlson Takeoff – Session #2-1 Recorded 1/25/2024

This session is the second day of the FastTrack Carlson Takeoff training series led by That CAD Girl. It covers advanced CAD cle anup, elevation management, geotechnical data entry, and coordin ate alignment workflows in Carlson Takeoff.

Key Topics:

- Drawing cleanup and layer management
- Elevation correction and contour preparation
- Handling PDF imports and block cleanup
- Converting spot elevations to Carlson points
- Translating and aligning coordinates
- Introduction to Geotech and Trench modules

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This session was presented by Jennifer DiBona on 1/25/2024.

Fast Track to Carlson Takeoff

– Session #1-3
Recorded 1/23/2024

This FastTrack Carlson Takeoff training session focuses on creating, cleaning, and preparing a working drawing for takeoffs and surface modeling using Carlson Software. The instructor demonstrates best practices for managing CAD data, cleaning imported files, handling Civil 3D and LandXML data, and preparing accurate 3D models for construction and machine control.

Key Topics:

- Creating and managing a “working drawing” in Carlson
- Cleaning and importing CAD and Civil 3D data
- Using Drawing Cleanup and Layer Inspector
- Managing Xrefs, layouts, and scaling
- Elevating polylines and preparing 3D models

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This session was presented by Jennifer DiBona on 1/23/2024.

Fast Track to Carlson Takeoff, Session #1-2

Recorded 1/23/2024

This webinar session from *That CAD Girl's Fast Track Carlson Takeoff* series demonstrates advanced takeoff and modeling workflows in Carlson Takeoff Suite and Carlson Civil. It covers material quantity reporting, topsoil removal and replacement, surface inspection, XML export for machine control, and 2D-to-3D polyline elevation techniques.

Key Topics:

- Material quantity and volume reporting in Carlson Takeoff
- Topsoil removal/replacement setup and surface logic
- Surface Inspector and surface file management (EX, FG, SG)
- Exporting surfaces to LandXML, TIN, and Topcon formats
- Cut/fill color maps, quick profiles, and 3D drive simulations
- Elevate / 3D Data tools for converting 2D to 3D polylines

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This session was presented by Jennifer DiBona on 1/23/2024.