

SAMPLE VIRTUAL CLASSROOM CAD, CARLSON, MICROSURVEY

Learn the fundamentals of CAD with That CAD Girl's *Getting Started with CAD* training series. This introductory session covers essential CAD concepts, interface navigation, command-line skills, and best practices for working in Carlson, MicroSurvey, and Civil 3D.

Key Topics:

- Understanding CAD platforms (IntelliCAD vs. AutoCAD)
- Navigating Carlson, MicroSurvey, and Civil 3D interfaces
- Using workspaces, ribbons, and toolbars effectively
- Command-line basics and shortcut aliases
- File management, auto-save, and backup strategies
- Customizing options and display settings
- Status bar tools and function key shortcuts
- Drawing settings, units, and coordinate systems
- Line vs. Polyline fundamentals
- UCS icon setup and coordinate orientation

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

This session was presented by Jennifer DiBona on 9/16/2025

SAMPLE VIRTUAL CLASSROOM In

Depth Carlson Hydrology with Travis Maxwell

This webinar provides a comprehensive introduction to Carlson Hydrology, led by veteran engineer Travis, focusing on setup, workflows, and best practices for stormwater modeling and design. Attendees learn how to configure libraries, manage sewer networks, and apply hydrologic methods such as SCS and Rational within Carlson Software.

Key Topics:

- Carlson Hydrology module overview and setup
- Sewer and storm network configuration
- Use of SCS and Rational methods for runoff and detention
- Inlet libraries, rainfall data, and HydroNet integration
- Best practices for file management and dynamic modeling

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This session was presented by Travis Maxwell on 11/07/2024. This webinar provides a comprehensive introduction to Carlson Hydrology, led by veteran engineer Travis, focusing on setup, workflows, and best practices for stormwater



That CAD Girl presents!

**IN-DEPTH
CARLSON HYDROLOGY**

Session #1-1

Presented by Travis Maxwell

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modeling and design. This webinar provides a comprehensive introduction to Carlson Hydrology, led by veteran engineer Travis, focusing on setup, workflows, and best practices for stormwater modeling

design. This session continues the in-depth Carlson Hydrology training with a focus on storm sewer network modeling, watershed delineation, and hydraulic grade line analysis. This final session of the

In-Depth Carlson Hydrology training series covers advanced hydrology modeling techniques using Carlson Hydrology and HydroNET. This final session of the In-Depth Carlson Hydrology training series covers advanced hydrology modeling techniques using Carlson Hydrology and HydroNET.



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What's So Special About Carlson's File Menu

A Virtual Webinar Using Carlson Software – Learn to Manage Project Files

This webinar explores the often-overlooked tools and workflows within Carlson Software's File menu. It demonstrates how to use the Start Page, Drawings Map, publishing tools, import/export options, and cleanup utilities to improve CAD efficiency and data exchange.

Key Topics:

- Carlson Start Page and Drawings Map
- File management and publishing to PDF
- Importing/exporting LandXML and Civil 3D data
- Carlson Community and data sharing
- Drawing cleanup, geolocation, and eTransmit

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This session was presented by Jennifer DiBona on 05/27/2020.

What's So Special About Carlson's Annotate Menu

A Virtual Webinar Using Carlson Software – Learn to Streamline Annotation Workflows

This webinar explores Carlson Software's Annotate Menu, demonstrating practical tools for labeling, dimensioning, and automating drafting tasks in survey and civil drawings. Jennifer DiBona (That CAD Girl) walks through real-world examples showing how to streamline annotation, manage object linking, and use time-saving commands.

Key Topics:

- Auto Annotate and object linking behavior
- Line and curve tables, label flipping, and re-annotation
- Survey Text tools (building dimensions, offset dimensions, joiner text)
- Labeling coordinates, slopes, and creating legends
- Tips for grids, spot elevations, and field-to-finish integration

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This session was presented by Jennifer DiBona on 09/24/2020.

The Very Basics of Carlson Field to Finish

A Virtual Webinar Using Carlson Software – Learn Field to Finish Basics

This webinar introduces the foundational concepts of Carlson's Field to Finish feature, demonstrating how to set up field code files, manage point data, and automate the creation of symbols and linework in CAD drawings. Attendees learn how to configure FLD files, use special codes, and control point display layers for efficient survey data processing.

Key Topics:

- Overview of Field to Finish in Carlson Survey
- Creating and managing FLD (field code) files
- Point creation, attributes, and symbol management
- Layer control and attribute separation
- Use of special codes and description handling

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This session was presented by Jennifer DiBona on 02/11/2020.

Taking a Survey Project from Field to Plotted Sheet

A Virtual Webinar Using Carlson Software – Learn to Complete Survey Workflows

This webinar walks through the complete workflow of taking a survey project from raw field data to a finished plotted sheet using Carlson Survey. It covers importing points, managing coordinate files, deed entry, field-to-finish automation, surface generation, and final sheet layout for professional deliverables.

Key Topics:

- Importing and managing survey points and coordinate files
- Entering and processing deed descriptions
- Using field-to-finish for automated drafting
- Building surfaces and contours
- Creating legends, title blocks, and final plot sheets

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This session was presented by Jennifer DiBona on 01/21/2020.

Subdivision Roads & Lot Grading

A Virtual Webinar Using Carlson Software – Learn to Design Subdivision Roads

This webinar demonstrates how to design subdivision roads and perform lot grading using Carlson Civil's Road Network and Grading tools. The session walks through building templates, setting profiles, elevating building pads, and creating 3D surfaces for residential developments.

Key Topics:

- Carlson Road Network setup and configuration
- Creating and editing roadway templates
- Elevating building pads and lot lines
- Generating and refining proposed surfaces
- Practical grading techniques for subdivisions

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This session was presented by Jennifer DiBona on 08/25/2020.

Standardizing CAD and Carlson Recorded 2/26/2020

This webinar by That CAD Girl provides a detailed walkthrough of how to standardize settings in Carlson Software and its underlying CAD platforms (AutoCAD or IntelliCAD). It covers configuration management, toolbar customization, quick keys, and best practices for creating consistent templates and workflows across teams.

Key Topics:

- Understanding the relationship between CAD platforms and Carlson vertical programs
- Configuring default settings and toolbars
- Managing quick keys and command aliases
- Creating and sharing standard settings and templates
- Using configuration files (.CFG, .TRI, .DWT) for consistency

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This session was presented by Jennifer DiBona on 02/26/2020.

Site Project Grading from Start to Finish

A Virtual Webinar Using Carlson Software – Learn to Complete Site Grading

This webinar demonstrates a complete site-grading workflow in Carlson Civil and IntelliCAD, from setting up surfaces and elevating building pads to creating 3D polylines, grading slopes, and calculating earthwork volumes. It provides step-by-step instruction for converting 2D plans into accurate 3D models suitable for construction takeoff and design verification.

Key Topics:

- Carlson Civil / IntelliCAD setup and configuration
- Creating and editing 2D and 3D polylines for grading
- Building pads, curbs, and pavement elevations
- Surface creation, triangulation, and contour analysis
- Daylighting to existing ground and balancing cut/fill volumes

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This session was presented by Jennifer DiBona on 07/14/2020.

Site Grading Tips & Tricks

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

This webinar by That CAD Girl focuses on best practices for editing surfaces in Carlson Software, emphasizing the difference between temporary surface edits and permanent surface definition changes. The session includes demonstrations of triangulation, contouring, breaklines, non-surface points, and field-to-finish workflows for accurate site grading models.

Key Topics:

- Editing surfaces vs. editing surface definitions
- Triangulation, contours, and breaklines
- Tagging non-surface points and using field-to-finish
- Managing surface rebuilds and protecting edits
- Shrink-wrap boundaries and inclusion/exclusion areas

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This session was presented by Jennifer DiBona on 02/19/2020.