

# Getting Started with CAD

## Session #1-3

### Recorded Sept 16, 2025

Learn essential CAD drafting and editing skills with That CAD Girl's *Getting Started with CAD* training series. This session covers practical tools, layer management, and real-world workflows for IntelliCAD, AutoCAD, Carlson, and MicroSurvey users .

#### Key Topics:

- CAD units and file compatibility
- Distance and inquiry commands (DIST, LIST)
- Object snaps and precision drafting
- Editing tools: MOVE, COPY, TRIM, EXTEND, FILLET
- Selection methods and shortcuts (Window, Crossing, Fence, WP/CP)
- Polylines and PEDIT functions
- Layer creation, organization, and visibility control
- Line types, line weights, and scaling (LTScale, PSLTScale)
- Undo/Redo and command efficiency
- Practical Q&A and troubleshooting tips

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

*This session was presented by Jennifer DiBona on 09/16/2025.*

---

# Getting Started with CAD

## Session #1-2

### Recorded Sept 16 2025

Learn the fundamentals of CAD drafting with this hands-on training session covering coordinate systems, line commands, and precision tools in IntelliCAD and Carlson. Discover how to use object snaps, polar coordinates, and ortho mode to create accurate, professional drawings efficiently.

#### Key Topics:

- Introduction to CAD drafting basics
- Coordinate systems (X, Y, and elevation)
- Drawing and editing lines
- Using polar and direct distance entry
- Ortho mode and function key shortcuts (F3, F6, F8)
- Zooming, panning, and navigation tools
- Object snaps and entity snaps (endpoint, midpoint, perpendicular, tangent, intersection, etc.)
- Carlson vs. IntelliCAD line command differences
- Undo/redo and command line operations
- Practical drafting tips for precision and efficiency

*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*

---

# Getting Started with CAD, Session 1-1 Recorded 9/16/2025

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*

---

# CAD Tips and Tricks DIMStyles & Linetypes

## Recorded 12/18/2025

This webinar explains how CAD users can effectively manage linetypes and dimension styles across AutoCAD, IntelliCAD, and Carlson platforms. It covers scaling principles, file management, and customization techniques to ensure drawings plot correctly at any scale.

### Key Topics:

- Understanding and editing .LIN linetype definition files
- Line type scaling (LTSCALE, PSLTSCALE, and PLINEGEN)
- Creating and managing custom linetypes with text
- Dimension style scaling and child styles for radius dimensions
- Best practices for plotting and template setup

*This webinar was presented by That CAD Girl (Jennifer DiBona) on December 18, 2025 and lasted approximately 1 hour.*

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

---

## C3D Surface from Points

# Recorded 4/10/25

This webinar, hosted by That CAD Girl and presented by Liz Valerio of CAD Masters, demonstrates how to create a Civil 3D surface from imported survey points. The session covers importing point data, organizing point groups, defining surfaces with breaklines and boundaries, and smoothing techniques for accurate terrain modeling.

## Key Topics:

- Importing and managing survey points in Civil 3D
- Creating and refining a surface using point groups, breaklines, and boundaries
- Smoothing surfaces and contours for realistic terrain representation

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

*This session was presented by Elizabeth Valerio on 04/10/2025.*

---

# Basics of Surface Modeling in Carlson Software

## Recorded 7/3/2025

This webinar provides a detailed walkthrough of surface modeling fundamentals in Carlson Software, covering data inspection, triangulation, contour generation, and integration with external data sources. Attendees learn practical workflows for building

accurate surfaces using points, breaklines, and field-to-finish automation.

**Key Topics:**

- Preparing and inspecting data for surface modeling
- Creating and refining TIN surfaces and contours
- Using breaklines and non-surface points
- Automating workflows with Field-to-Finish
- Integrating Google Earth and GIS imagery

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

*This session was presented by Jennifer DiBona on 7/3/2025.*

---

# **An Overview of NCS Layers And Drawing Templates Recorded 08/12/2025**

This webinar provides a detailed walkthrough of the National CAD Standard (NCS) layer naming conventions and demonstrates how to implement them through drawing templates in AutoCAD, Civil 3D, and Carlson software. Attendees learn how to create, customize, and manage templates for consistent CAD standards across projects.

**Key Topics:**

- Overview of the National CAD Standard (NCS)
- Layer naming conventions and discipline designators

- Creating and customizing drawing templates (DWT files)
- Using templates in AutoCAD, Civil 3D, and Carlson
- Managing sheet templates and layout tabs

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

---

# **An Overview of Enhanced Productivity with MicroSurvey CAD**

## **Recorded 3/25/2025**

This webinar introduces MicroSurvey CAD, a survey-focused CAD solution designed to streamline boundary and cadastral workflows. James Johnston demonstrates setup, configuration, and advanced COGO tools that improve efficiency and accuracy for surveyors transitioning from general CAD platforms.

### **Key Topics:**

- Introduction to MicroSurvey and its product ecosystem
- Configuring MicroSurvey CAD for boundary and cadastral work
- Demonstration of COGO tools, labeling, and lot closure features
- Integration with Leica Captivate and Starnet
- Upcoming webinars and product roadmap

Descriptions, transcripts and other details of this recording

have been AI-generated and may contain errors.

---

# Carlson Field to Finish Recorded 9/4/2025

This webinar provides a comprehensive walkthrough of Carlson Software's *Field to Finish* feature, explaining how to automate point processing, linework creation, and symbol management from field data to CAD drawings. Participants learn how to build and customize FLD files, manage layers, and apply special codes for efficient survey drafting workflows.

## Key Topics:

- Overview of Carlson Field to Finish concepts
- Creating and editing FLD (field code) files
- Managing point layers, symbols, and linework
- Using special codes and description formatting
- Building legends and plotting best practices

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

*This session was presented by Jennifer DiBona, on 09/04/2025.*