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

Getting Started in Carlson

Session #3-3

Learn how to streamline your surveying workflow with Carlson Survey’s deed entry, correlation, and field-to-finish tools. This session covers practical CAD automation techniques for accurate boundary creation, point management, and efficient drafting.

Key Topics:

- Entering and processing deed descriptions
- Correcting closure errors and editing PDD files
- Translating and correlating deed points with field data
- Creating and customizing Field-to-Finish (FLD) files
- Managing point groups, layers, and attributes
- Using 3D Drawing Viewer and Layer Inspector for QA
- Snapping and drafting best practices
- Drawing tangent and non-tangent curves
- Generating legends and using full-name descriptions
- Carlson Survey tips, automation, and workflow optimization

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This session was presented by Jennifer DiBona on 9/18/2025.

Getting Started in Carlson Session #3-2

Learn how to create and customize Carlson drawing templates, manage coordinate and point files, and streamline your CAD workflow. This session covers practical steps for building standards, importing survey data, and preparing for field-to-finish automation.

Key Topics:

- Carlson DWT template creation and customization
- Layer, line type, and text style management
- Importing and editing CRD (coordinate) and point files
- Using IntelliCAD Explorer for layer and block control
- Point groups and description-based organization
- Maintaining data integrity between drawings and CRD files
- Coordinate systems and real-world datum setup
- Field-to-Finish introduction and automation overview

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This session was presented by Jennifer DiBona on 9/18/2025.

Getting Started in Carlson Session #3-1

Learn how to set up and customize Carlson Software with this in-depth training session led by That CAD Girl. Discover best

practices for configuring projects, managing data files, and optimizing your CAD environment for surveying and civil design.

Key Topics Covered:

- Carlson Software installation and startup
- IntelliCAD vs. AutoCAD interface overview
- Using the Start Page, templates, and drawing setup
- Customizing toolbars, ribbons, and menus
- Carlson modules: Survey, Civil, Hydrology, GIS, and more
- Object linking and external data file management (CRD, CL, TIN)
- Project folder organization and subfolder setup
- Dropbox integration for field and office collaboration
- Default drawing settings and coordinate systems
- Accessing help, updates, and version builds
- Saving and sharing configuration files for office standards

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This session was presented by Jennifer DiBona on 9/18/2025.

Fast Track to MicroSurvey Session 2-3

This MicroSurvey CAD training session covers advanced workflows for survey and civil design professionals, focusing on point management, CAD settings, DTM surface creation, contour generation, and volumetric analysis. The session also includes

troubleshooting tips, boundary setup, and an introduction to automated site design tools.

Key Topics:

- CAD settings and PD Mode troubleshooting
- Point Cluster Reports and Point Patterns
- DTM surface creation and editing
- Contour generation, labeling, and smoothing
- Volumetric (cut/fill) calculations
- Auto Site Design and building pad modeling
- MicroSurvey online training resources

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This session was presented by James Johnston on 9/17/2025.

Fast Track to MicroSurvey Session 2-2

This FastTrack MicroSurvey training session, led by James Johnston, provided a detailed walkthrough of construction workflows in MicroSurvey CAD. Participants learned how to clean up architectural drawings, generate staking points, manage grid lines, and export data efficiently for field use.

Key Topics:

- Drawing cleanup and rescaling workflows
- House placement and lot definition tools
- Grid line and point population automation

- Point pattern, cluster, and QA tools
- Exporting data for field staking and reporting

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This session was presented by James Johnston on 9/17/2025.

Fast Track to MicroSurvey Session 2-1

This recorded training session introduces MicroSurvey CAD’s field-to-finish workflows, focusing on AutoMap configuration, point and linework customization, and data import from FieldGenius and Leica Captivate. Instructor James Johnston demonstrates practical setup, symbol scaling, substitution codes, and project management features for survey and construction professionals.

Key Topicss:

- AutoMap field-to-finish setup and customization
- Importing and managing survey data (FieldGenius, Captivate, ASCII)
- Symbol scaling, substitution codes, and linework generation
- Project management, coordinate editor, and survey groups
- Overview of MicroSurvey product family and online learning resources

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This session was presented by James Johnston on 09/17/2025.

Getting Started with CAD Session #1-3

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

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

Getting Started with CAD Session #1-2

Learn the fundamentals of CAD drafting with this 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

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

Getting Started with CAD, Session 1-1

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