9 Sessions: Fast Track to CAD, Carlson & MicroSurvey

A Virtual Classroom series introducing CAD fundamentals, MicroSurvey survey workflows and Carlson setup, point management and Field-to-Finish.

This nine-session Virtual Classroom introduces CAD fundamentals, MicroSurvey survey workflows and Carlson setup for new and transitioning users. Jennifer DiBona teaches precise CAD drafting, then Carlson templates, configuration, CRD points, deed processing and Field-to-Finish. James Johnston leads the MicroSurvey day on project setup, construction stakeout and digital terrain modeling.

Key Topics:

- CAD workspaces, templates, drawing units, command prompts and screen navigation
- Precise linework with coordinate entry, object snaps, selection, editing and inquiry tools
- Layers, colors, lineweights, linetypes and model space and paper space considerations
- MicroSurvey CAD orientation, project setup, coordinate files and point workflows
- MicroSurvey construction layout, stakeout points and layer organization
- MicroSurvey digital terrain models, surface inputs,

breaklines and model inspection
- Carlson startup, project folders, DWT templates, drawing setup and saved configuration
- Carlson CRD points, coordinate systems, layer standards and GIS imagery context
- Carlson deed entry and processing, point groups and Field-to-Finish codes, symbols and non-surface points

Sessions In This Series:

- Sessions 1-1 to 1-3: Getting Started with CAD, presented by Jennifer DiBona
- Sessions 2-1 to 2-3: Fast Track to MicroSurvey, presented by James Johnston
- Sessions 3-1 to 3-3: Getting Started with Carlson, presented by Jennifer DiBona

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These sessions were presented by Jennifer DiBona or James Johnston.

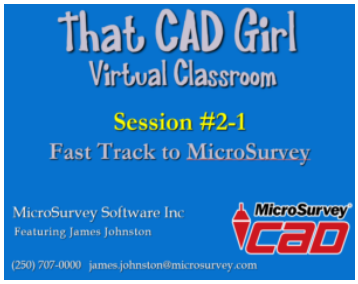
Jennifer DiBona introduces CAD platforms, the interface, command

line and drawing settings.Jennifer DiBona covers coordinates, line commands, object snaps and precision drafting tools.





Jennifer DiBona teaches editing commands, selection methods, polylines and layer control.James Johnston introduces MicroSurvey field-to-finish, AutoMap setup and survey data import.

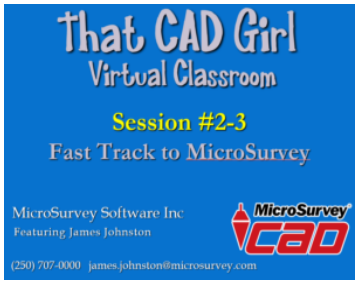




James Johnston covers MicroSurvey construction stakeout, drawing cleanup

and grid and point tools.James Johnston builds DTM surfaces, contours and volumes and introduces Auto Site Design. Jennifer DiBona starts Carlson setup, modules, project folders and configuration files.Jennifer DiBona builds drawing templates, layers and styles and manages CRD files.Jennifer DiBona covers deed entry, deed correlation and Field-to-Finish in Carlson Survey.









Fast Track to CAD, MicroSurvey & Carlson:

Session #3-3 Getting Started in Carlson

A Virtual Classroom Using Carlson Software – Learn Deed Entry and Field-to-Finish Basics

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, closure errors and PDD files
- Translating and correlating deed points with field data
- Creating Field-to-Finish (FLD) files with point groups, la yers and attributes
- Using 3D Drawing Viewer and Layer Inspector for QA
- Snapping and drawing tangent and non-tangent curves
- Generating legends and using full-name descriptions

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This session was presented by Jennifer DiBona on 09/18/2025.

Fast Track to CAD, MicroSurvey & Carlson:
Session #3-2 Getting Started in Carlson

A Virtual Classroom Using Carlson Software – Learn Points, Templates and Coordinate Setup

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 with IntelliCAD Explorer
- Importing and editing CRD (coordinate) and point files
- Point groups and description-based organization
- Coordinate systems and real-world datum setup
- Field-to-Finish introduction and automation overview

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Fast Track to CAD, MicroSurvey & Carlson:
Session #3-1 Getting Started in Carlson

A Virtual Classroom Using Carlson Software – Learn Setup, Templates and Configuration Basics

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, updates and version builds
- IntelliCAD vs. AutoCAD interface with toolbars, ribbons and menus
- Start Page, templates and default drawing settings
- Carlson modules: Survey, Civil, Hydrology, GIS and more
- Object linking and external data file management (CRD, CL, TIN)
- Project folders, Dropbox collaboration and shared

configuration files

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Fast Track to CAD, MicroSurvey & Carlson:
Session #2-3 Fast Track to MicroSurvey

A Virtual Classroom Using MicroSurvey CAD – Learn Digital Terrain Model Workflows

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

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

Fast Track to CAD, MicroSurvey & Carlson: Session #2-2 Fast Track to MicroSurvey

A Virtual Classroom Using MicroSurvey CAD – Learn Construction Point and Stakeout Workflows

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 09/17/2025.

Fast Track to CAD, MicroSurvey & Carlson:
Session #2-1 Fast Track to MicroSurvey

A Virtual Classroom Using MicroSurvey CAD – Learn Survey Project Setup and Point Workflows

This virtual classroom 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.

Fast Track to CAD, MicroSurvey & Carlson: Session #1-3 Getting Started with CAD

A Virtual Classroom Using CAD – Learn Layers, Editing and Plot Control

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 .

Although Carlson Software with IntelliCAD was used in this session and a few Carlson-specific commands are shown, the workflows are by and large the same for all AutoCAD or IntelliCAD based programs, and other programs will likely have their own version of those Carlson commands.

Key Topics:

- CAD units, file compatibility and inquiry commands (DIST, LIST)
- 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)

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

Fast Track to CAD, MicroSurvey

& Carlson:
Session #1-2 Getting Started with CAD

A Virtual Classroom Using CAD – Learn Precise Linework and Editing Basics

Learn the fundamentals of CAD drafting with this Virtual Classroom 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.

Although Carlson Software with IntelliCAD was used in this session and a few Carlson-specific commands are shown, the workflows are by and large the same for all AutoCAD or IntelliCAD based programs, and other programs will likely have their own version of those Carlson commands.

Key Topics:

- Coordinate systems (X, Y and elevation)
- Drawing and editing lines with undo/redo
- Polar and direct distance entry with Ortho mode and function keys (F3, F6, F8)
- Carlson vs. IntelliCAD line command differences
- Zooming, panning and navigation tools
- Object snaps and entity snaps (endpoint, midpoint, perpendicular, tangent, intersection, etc.)

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Fast Track to CAD, MicroSurvey & Carlson:
Session #1-1 Getting Started with CAD

A Virtual Classroom Using CAD – Learn Interface Setup and Drawing Basics

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.

Although Carlson Software with IntelliCAD was used in this session and a few Carlson-specific commands are shown, the workflows are by and large the same for all AutoCAD or IntelliCAD based programs, and other programs will likely have their own version of those Carlson commands.

Key Topics:

- Understanding CAD platforms and the 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, display settings, status bar tools and function keys
- Drawing settings, units, coordinate systems and UCS icon setup

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