Fast Track to Carlson Civil Suite and CADnet – Session #1-1
Recorded 5/23/2023

This training session introduced participants to the Carlson Civil Suite and CADnet software, focusing on setup, configuration, and foundational workflows in Carlson Survey, Civil, Hydrology, GIS, and CADnet. The instructor demonstrated key menus, data management practices, and GIS integration techniques for efficient civil engineering and surveying workflows.

Key Topics:

- Overview of Carlson Civil Suite modules and environment setup
- Managing templates, layers, and project data folders
- Carlson Configure settings and defaults
- GIS data import, editing, and visualization
- Integration with Google Earth and Esri 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 05/23/2023.

Site Project Grading from Start to Finish Recorded 10/18/2023

This webinar provides a complete walkthrough of grading a site project using Carlson Civil, from initial setup and data preparation to creating surfaces and calculating volumes. It demonstrates practical workflows for converting 2D linework into 3D models, managing elevation data, and producing accurate grading surfaces for construction and design.

Key Topics:

- 2D to 3D polyline conversion methods
- Building pad and curb grading techniques
- Surface modeling and volume calculations

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

This session was presented by Jennifer DiBona on 10/18/2023.

Advanced Road Network

Recorded 5/11/2023

This webinar, hosted by That CAD Girl and presented by Travis, provides an in-depth look into advanced features of Carlson RoadNet. It covers dynamic road network setup, template configuration, curb ramps, cul-de-sacs, lot grading, and troubleshooting techniques for civil design professionals.

Key Topics:

- Dynamic Carlson RoadNet setup and configuration
- Advanced template creation and transitions
- Curb ramps, cul-de-sacs, and hammerhead intersections
- Lot grading and building pad elevation
- Troubleshooting and optimization best practices

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

This session was presented by Travis Maxwell on 05/11/2023.

Using Point Cloud and Public LIDAR to produce existing

terrain
Recorded 7/9/2024

This webinar, hosted by That CAD Girl and presented by Travis Maxwell, demonstrates how to use Carlson Point Cloud software with publicly available LiDAR data to create accurate existing terrain models. The session covers data acquisition, classification filtering, surface generation, and contour refinement techniques for civil and surveying applications.

Key Topics:

- Downloading and managing public LiDAR data (USGS & state sources)
- Importing LAS/LAZ files into Carlson Point Cloud
- Classifying and filtering ground points
- Creating TIN surfaces and contours
- Managing point density and data reduction

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

This session was presented by Travis Maxwell on 07/09/2024.

Fast Track to Surface Modeling in Carlson Software – Session

2-3
Recorded 07/27/2023

This session of the *FastTrack Surface Modeling* series demonstrates advanced Carlson Software road network design, including intersections, cul-de-sacs, turn lanes, and lot grading automation. The instructor walks through practical workflows for building, editing, and processing road networks while explaining how Carlson dynamically manages profiles, templates, and surfaces.

Key Topics:

- Creating and editing roads within Carlson Road Network
- Managing intersections, cul-de-sacs, and roundabouts
- Using templates, profiles, and grading settings
- Elevating pads and lots for building sites
- Generating surfaces, contours, and quantity reports

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

This session was presented by Jennifer DiBona on 07/27/2023.

Fast Track to Surface Modeling in Carlson Software – Session 2-2

Recording 07/27/2023

This Carlson Software training webinar continues the Fast Track Surface Modeling series, focusing on advanced grading, 3D polyline editing, and surface modeling workflows. The session demonstrates practical tools for curb, sidewalk, and parking lot design, as well as road network setup and volume calculations.

Key Topics:

- 3D polyline elevation editing and grading
- Creating and adjusting curb, sidewalk, and parking lot surfaces
- Using Carlson’s “Points by Slope” and “2D to 3D Polyline” tools
- Building and merging surface models
- Road Network (RoadNet) setup and template creation

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

This session was presented by Jennifer DiBona on 07/27/2023.

Fast Track to Surface Modeling in Carlson Software – Session 2-1

Recorded 7/27/23

This advanced Carlson Software training session covers surface modeling workflows, LandXML data exchange, pad grading, and volume calculations. Participants learn practical grading and modeling techniques for civil and survey projects using Carlson Civil and Survey modules.

Key Topics:

- LandXML export/import and data archiving
- Pad grading and daylight projection
- Volume calculations and balancing
- Surface merging and cut/fill analysis
- Stockpile volume computation

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

This session was presented by Jennifer DiBona on 07/27/2023.

Fast Track to Surface Modeling in Carlson Software – Session #1-3
Recorded 07/25/2023

This session is the third installment in the *Fast Track to Surface Modeling in Carlson Software* training series. It provides a detailed walkthrough of surface modeling workflows, including lab

eling, 3D polyline editing, pad grading, daylighting, and design pad templates within Carlson Civil and Survey.

Key Topics:

- Labeling and annotating 3D polylines
- Elevating 2D polylines using surfaces and slope calculations
- Pad grading and daylighting techniques
- Using Design Pad Template for automated grading

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

This session was presented by Jennifer DiBona on 07/25/2023.

Fast Track to Surface Modeling in Carlson Software – Session #1-2
Recorded 07/25/2023

This Carlson Software training session led by That CAD Girl provides a detailed walkthrough of surface modeling techniques, focusing on creating and refining TIN and grid surfaces from contours, points, and public data sources. The webinar demonstrates best practices, pitfalls to avoid, and advanced Carlson Civil tools for accurate grading and surface preparation.

Key Topics:

- Building surfaces from contours and avoiding flat triangles
- Using Carlson’s triangulation and contouring tools
- Importing public elevation data (Google Earth, NED, LiDAR DEM)
- Managing TIN vs GRID files and surface boundaries
- Elevating 2D polylines to 3D for grading and design

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

This session was presented by Jennifer DiBona on 07/25/2023.

Fast Track to Surface Modeling in Carlson Software – Session #1-1
Recorded 7/25/23

This session introduces the fundamentals of surface modeling in Carlson Software, covering how to build, inspect, and refine existing ground surfaces using points, breaklines, and triangulation tools. Participants learn practical workflows for creating accurate TIN models, troubleshooting elevation issues, and improving contour quality.

Key Topics:

- Building and validating existing ground surfaces
- Using Drawing Inspector, 3D Viewer, and Shrink Wrap tools

- Managing non-surface points and breaklines
- Triangulate & Contour workflows
- Field-to-Finish automation and contour aesthetics

This session was presented by Jennifer DiBona on 07/25/2023.