Site Project Grading from Start to Finish

A Virtual Webinar Using Carlson Civil – Learn Site Project Grading

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:

- Initial setup and data preparation
- 2D to 3D polyline conversion methods
- Managing elevation data
- Building pad and curb grading techniques
- Surface modeling
- Volume calculations

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

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

Advanced Road Network

A Virtual Webinar Using Carlson RoadNet – Learn Advanced Road Network Design

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 ha ve 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

A Virtual Webinar Using Carlson Software – Learn to Create Existing Terrain Models

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 s ources)
- 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

A Virtual Classroom Using Carlson Software – Complete RoadNet and Lot Grading

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

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

Fast Track to Surface Modeling in Carlson Software: Session #2-2

A Virtual Classroom Using Carlson Software – Set Up RoadNet Templates and Road Surfaces

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 surf aces
- Using Carlson's "Points by Slope" and "2D to 3D Polyline" tools
- Building and merging surface models
- Road Network (RoadNet) setup and template creation

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

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

A Virtual Classroom Using Carlson Software – Improve Contour-Based Surface Models

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

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

Fast Track to Surface Modeling in Carlson Software: Session #1-3

A Virtual Classroom Using Carlson Software – Build Pad Grading Surface Models

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 labeling, 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

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

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

A Virtual Classroom Using Carlson Software – Build Surfaces from Contours and Polylines

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

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

Fast Track to Surface Modeling in Carlson Software: Session #1-1

A Virtual Classroom Using Carlson Software – Learn Surface Modeling Fundamentals

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

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

Survey Project from Field to Plotted Sheet

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

This webinar provides a complete walkthrough of creating a survey project in Carlson Software—from importing field data and processing coordinates to producing a finished plotted sheet. It covers best practices for point management, deed entry, alignment, field-to-finish automation and sheet layout setup.

Key Topics:

- Carlson Survey project setup and configuration
- Importing and managing point data (CRD files, point groups)
- Entering and editing deed descriptions
- Deed correlation and alignment with field data
- Field-to-Finish drawing automation
- Creating legends, north arrows and title blocks for plotted sheets

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This session was presented by Jennifer DiBona on 01/16/2024.