2022 Virtual Workshops Session 2-1: Introduction to Carlson

A Virtual Workshop Using Carlson Software – Learn Carlson Setup, Software Resources and Point Defaults

This virtual workshop introduces participants to Carlson Software 2023, focusing on setup, configuration and best practices for new users. The session covers installation, interface customization, project folder organization and annotation standards within Carlson Survey and IntelliCAD environments.

Key Topics:

- Carlson 2023 installation and version updates
- Interface setup and configuration (menus, ribbons, toolbar s)
- Managing projects, data folders and settings
- Understanding Carlson vs. CAD commands
- Annotation, text scaling and drawing setup

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 11/17/2022.

In Depth Carlson Hydrology Session #2-3

A Virtual Classroom Using Carlson Software – Learn Advanced Hydrology Modeling

This final session of the In-Depth Carlson Hydrology training series covers advanced hydrology modeling techniques using Carlson Hydrology and HydroNET. The instructor demonstrates stream delineation, stage-storage modeling, chamber design and integration with HydroCAD for comprehensive stormwater management workflows.

Key Topics:

- StreamStats and drainage area delineation
- Stage-storage and chamber modeling in HydroNET
- Integration with HydroCAD for detention system design
- Table-based calculations and regression analysis
- Wet pond grading and detention pond detailing

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This session was presented by Travis Maxwell on 09/14/2022.

In Depth Carlson Hydrology Session #2-2

A Virtual Classroom Using Carlson Software – Learn Detention Pond Design

This session is part of the In-Depth Carlson Hydrology training series, focusing on advanced hydrology design workflows in Carlson Civil and Hydrology. The instructor demonstrates practical tools for surface modeling, watershed analysis, detention pond design and HydroNet modeling.

Key Topics:

- Linear and path arrays in Carlson CAD
- Importing and refining Google surfaces
- Watershed and runoff tracking analysis
- Creating detention ponds and HydroNet modeling
- Stage-storage and stage-discharge design with risers, orifices and spillways

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This session was presented by Travis Maxwell on 09/14/2022.

In Depth Carlson Hydrology Session #2-1

A Virtual Classroom Using Carlson Software – Learn HydroNet Detention Modeling

This session continues the in-depth Carlson Hydrology training, focusing on collection systems, utility networks and HydroNet detention modeling. Travis demonstrates advanced workflows for managing project files, creating profiles, checking crossings and setting up hydrologic models in Carlson Civil and Hydrology.

Key Topics:

- Carlson Hydrology collection system and utility network management
- Crossings, parallel pipes and clearance checks
- Watershed curve numbers and custom 24-hour rainfall distributions
- Pond riser, orifice and weir outlet design
- HydroNet setup, detention design and hydrograph generation

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This session was presented by Travis Maxwell on 09/14/2022.

In Depth Carlson Hydrology Session #1-3

A Virtual Classroom Using Carlson Hydrology – Learn Watershed Delineation and HGL Analysis

This session continues the in-depth Carlson Hydrology training with a focus on storm sewer network modeling, watershed delineation and hydraulic grade line analysis. Instructor Travis Maxwell demonstrates practical workflows for drainage area setup, pipe sizing, spread analysis and custom symbol management within Carlson Civil software.

Key Topics:

- Watershed delineation and drainage area setup
- Sewer network modeling and hydraulic grade line (HGL) anal ysis
- Pipe slope adjustments and capacity troubleshooting
- Spread and ponding depth calculations
- Custom symbol creation and management in Carlson

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This session was presented by Travis Maxwell on 09/07/2022.

In Depth Carlson Hydrology Session #1-2

A Virtual Classroom Using Carlson Software – Learn Advanced Hydrology Workflows

This in-depth Carlson Hydrology training session focuses on converting Civil 3D data, building terrain surfaces and designing stormwater networks using Carlson software. The webinar demonstrates practical workflows for integrating utilities, creating ponds and managing storm drainage systems efficiently.

Key Topics:

- Converting Civil 3D data for Carlson use
- Building and merging terrain surfaces
- Creating and editing stormwater networks
- Managing utilities and pipe crossings
- Setting up ponds and drainage areas

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This session was presented by Travis Maxwell on 09/07/2022.

In Depth Carlson Hydrology Session #1-1

A Virtual Classroom Using Carlson Hydrology – Learn Hydrology Setup and Storm Network Basics

This session provides a comprehensive introduction to Carlson Hydrology, led by veteran engineer Travis, focusing on setup, workflows and best practices for stormwater modeling and design. Attendees learn how to configure libraries, manage sewer networks and apply hydrologic methods such as SCS and Rational within Carlson Software.

Key Topics:

- Carlson Hydrology module overview and setup
- Sewer and storm network configuration
- Use of SCS and Rational methods for runoff and detention
- Inlet libraries, rainfall data and HydroNet integration
- Best practices for file management and dynamic modeling

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This session was presented by Travis Maxwell on 09/07/2022.

Beyond the Basics-Advanced Layout and Grading Techniques With Carlson Software Follow Up
Session 1-3

A Virtual Classroom Using Carlson Software – Learn Advanced Grading and Surface Modeling Tips

This follow-up training session for *Beyond the Basics: Advanced Layout and Grading Techniques* with Carlson Software dives deeper into SiteNet workflows, pad grading and dynamic surface modeling. Travis demonstrates practical grading tools, troubleshooting tips and efficient methods for balancing earthwork and managing contour updates.

Key Topics:

- SiteNet boundaries vs. areas of interest
- Dynamic contour updates and reprocessing
- Pad Grade workflows and balancing techniques
- Layer management and display settings
- Driveway and surface grading best practices

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This session was presented by Travis Maxwell on 08/09/2022.

Beyond the Basics-Advanced Layout and Grading Techniques With Carlson Software Session 1-2

A Virtual Classroom Using Carlson Software – Learn to Refine Roadway, Lot and Driveway Surfaces

This advanced Carlson Software training session demonstrates how to integrate RoadNet, LotNet and SiteNet for efficient site design, grading and earthwork balancing. Travis provides step-by-step instruction on creating entrances, managing templates, grading driveways and dynamically adjusting surfaces for balanced cut/fill results.

Key Topics:

- Integrating RoadNet, LotNet and SiteNet for coordinated gr ading
- Creating and editing road and entrance templates
- Dynamic surface editing and balancing earthwork
- Driveway and building pad elevation control
- Using SiteNet for cost estimation and surface management

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This session was presented by Travis Maxwell on 08/03/2022.

Beyond the Basics-Advanced Layout and Grading Techniques With Carlson Software Session 1-1

A Virtual Classroom Using Carlson Software – Learn Subdivision Layout, Lot Grading and Road Design

This webinar introduces advanced subdivision layout and grading workflows in Carlson Software, focusing on Lot Net, Road Net and Site Net integration. Attendees learn how to automate residential subdivision design, apply sheet sets and manage 3D grading for efficient plan production.

Key Topics:

- Carlson Lot Net, Road Net and Site Net workflows
- Sheet Set Manager setup and custom fields
- Automated lot subdivision and grading logic
- Road Network intersections, cul-de-sacs and roundabouts
- Template creation, transitions and 3D line generation
- Earthwork balancing and site modeling

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This session was presented by Travis Maxwell on 08/03/2022.