

Autodesk InfraWorks – Essentials

Autodesk InfraWorks software is a conceptual design tool that helps project engineers, designers and planning professionals create, evaluate, and collaborate compelling 3D models of infrastructure project proposals for faster stakeholder approval and more confident project evaluations. With Infracworks, you can incorporate existing CAD, GIS, BIM, and raster data to quickly create models that more realistically depict the local environment. You can more easily evaluate multiple design alternatives in the context of the existing environment by overlaying GIS data and using infrastructure sketching and proposal management tools. And you can communicate visually rich proposals of these alternatives with interactive navigations, rendered images, and presentation videos.

Who should attend?

This is a beginner-level course for civil engineers, planners and drafters who are presently using any type of CAD-based software, including AutoCAD, Map 3D, or Civil 3D.

Prerequisites

No prerequisites for this course. However, to get the most from this class, students should be comfortable using CAD software and have a working knowledge of the Microsoft Windows environment.

Questions?

Please call us at 800-336-3375.

Course Outline

Navigating the Model

- Software and Add-on Overview
- Tour of the Front End and Features
- Overview of the Interface
- Navigating the Model
- Model Settings – Setting Up Units, Model Extents and Coordinate System
- Introduction to the Model Builder
- Working with Data Sources
- Configure and Display Data Sources

Stylize Data Sources

- Introduction to the Style Palette
- Applying and Changing Styles
- Creating and Modifying Styles
- Saving and Sharing Styles and Assemblies
- Importing Data for Custom Styles

Working with Selection

- Understanding Selection Modes
- Zooming to Selection
- Working with Grips
- Editing your design with Grips

Create Model Elements

- Creating Design Roads
- Creating Component Roads
- Working with Zones to edit Road Geometry, Style, Lanes, and Grading
- Introduction to Intersections and Assemblies
- Creating New Features: Buildings, Coverage Areas, Railways, and Water Bodies
- Create Pipe Networks and Connectors
- Adding and Importing Model
- Enhancements and City Furniture

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Model Management

- Introduction to Bookmarks
- Working with Proposals
- Introduction to Model Explorer
- Working with Layers
- Model Regeneration and Thumbnail Creation

Analyzing the Model

- Measuring your Model
- Calculating Area
- Calculating Earthwork
- Creating Flood Simulation
- Creating Traffic Simulation
- Creating Terrain Themes
- Creating Feature Themes
- Creating Point Cloud Themes
- Working with Sun and Sky Controls
- Optimizing Road Design and Analyzing Cost

Presenting your Model

- Rendering your Model
- Introduction to the Storyboard Creator
- Exporting Animations
- Working with Scenarios
- Share Files via BIM 360
- Working with Design Feed

Exporting your Model

- Create FBX Models
- Creating IMX Data
- Importing Data into Civil 3D