InfraWorks ESSENTIALS

Course Length: 16 Hours

Overview:

This course is designed for users who are seeking to learn Infraworks.

Learning Objectives:

- Take advantage of Infraworks' interactive and dynamic design functionality.

Acquisition:

Trainees will get a Certificate of Completion.

Notes:

The course length is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the students.

Course Description:

This course introduces users to Infraworks, incorporating the tools necessary to create civil engineering drafting and visual presentation.

The training also enables students to create and design roads, bridges and drainages quickly while dynamically linking and generating automatic design updates.

Topics Covered:

Introduction
- Home Dashboard
- User Interface
- Application Options
- Utility Bar
- Intelligent Tools
- BIM 360
- Data Sources
- Mode Properties
- Surface Layers
- Model Explorer

- Point Cloud Features
- Bookmarks
- Proposal

Existing Conditions
- Model Builder
- Create Terrain Theme
- Create Drainage Watershed

Site Planning
- Property Parcels and Easements
- Zoning theme
- Land Use Theme
- Residential Subdivision
- Commercial Parking

Site Grading
- Creating Land Areas
- Land Areas Styles
- Creating Coverage Areas
- Coverage Areas Style
- Creating Slope Themes
- Creating Building
- Creating Ponds
- Creating Walls and Barriers
- Trees and Landscaping
- Creating Vegetation Style
- Creating City Furniture

Road Design
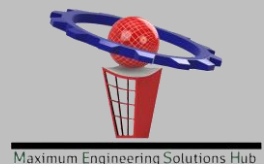- Planning Roads
- Planning Road Styles
- Right of Way
- Creating Component Roads
- Component Road Styles
- Roadway Editing Features

Road Design (Continuation)
- Material
- Material Group
- Component Roads Profiles
- Component Roads Section Views
- Roadside Grading
- Sight Distance
- Profile Optimization
- Corridor Optimization
- Material Quantities
- Earthwork Quantities
- Intersection Design
- Roundabout Design
- Job Monitor

Bridge Design
- Create Parametric Bridge
- Working with Girder Types
- Working with Piers
- Line Girder Analysis

Bridge Design (Continuation)
- Bridge Quantities and Reports
- Working with Bridge Templates and Styles
- Create a tunnel

Railways
- Create a Railway
- Railway Styles
- Editing Railways

Utilities
- Watersheds
- Size Roadway Drainage Network
- Working with Rainfall Content
- Creating Pipelines and Connectors

Visualization
- View Settings
- Sun and Sky Settings

Collaboration
- Infraworks to Civil 3D Roadway Design
- Watermarks
- Storyboard Creator
- Create and Share the Storyboard
- Storyboard Creator, part 2
- Create a Snapshot
- Create Shareviews

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