

Autodesk Navisworks Essentials

Duration:

2 Days

Who should attend?:

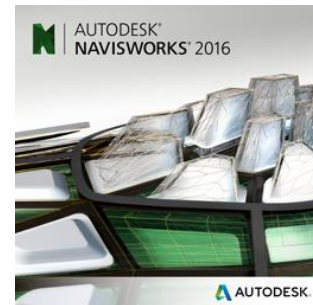
This course is designed for new users of Autodesk Navisworks.

Prerequisites:

Delegates on this course will be expected to have:

A working knowledge of AutoCAD, Revit or similar design software

It is recommended working knowledge of Microsoft supporting systems.

**Course Description:**

Using the functionality of the Autodesk Navisworks Review, Simulate, and Manage, this course teaches delegates how to combine 3D geometry from cross disciplines into one scene to enable e-ective model reviews, and run object-interference checks on 3D models.

Objectives:

The primary objective of this courseware is to teach students the functionally Autodesk Navisworks. After completing this course, students will be able to:

- Open and append 3D files of different formats and save in the Navisworks format
- Create links to object properties files and scheduling files in external databases
- Perform visual project model reviews using the built-in review and reporting tools
- Create construction simulations of a project model to check validity of schedules
- Use Animator and Scripter to create interactive animations for presentations
- Add materials, lighting & backgrounds to project models to create photorealistic output
- Perform clash detection tests between different 3D files to check design integrity.

* The suggested course duration is a guideline.

Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants.

A Gritec Certificate will be issued upon completion.

Maximum number of delegates: 6 per course

Course Outline:

Day 1

Getting Started with Autodesk Navisworks

- Publishing, Merging, Refreshing, and Emailing Files.
- Selection Tree and Selecting Objects

3D Model Review

- Hiding Objects and Overriding Materials.
- Objects Properties
- Measuring and Moving Objects
- Selection and Search Sets
- Viewports
- Comments, Redlining, and Tags
- Animations
- Sectioning
- Links
- Comparing Models
- Navisworks Real-Time Rendering
- Switchback

TimeLiner

- TimeLiner Overview
- Creating Tasks
- Gantt View
- Import Tasks from External Project File
- TimeLine Simulation
- Configuring and Defining a Simulation
- Simulation Export

Animator

- Animator Overview
- Creating a Basic Animation
- Manipulate Geometry Objects in an Animation Set
- Section Plane Sets
- Controlling Animation Scene Playback

Day 2

Scripter

- Scripter Overview
- Creating and Managing Scripts
- Creating and Configuring Events
- Creating and Configuring Actions

Quantification

- Quantification Overview
- Setting up a Quantification Project
- Item and Resource Management
- 3D Model and Virtual Takeoff
- Managing Takeoff Data
- 2D Takeoffs
- Analysing Changes
- Exporting Takeoff Data

Clash Detective

- Clash Detective Overview
- Clash Results
- Clash Test Reporting
- Working with Clash Tests
- Audit Checks
- Exporting and Importing Clash Tests
- Laser Scan Data Clashing
- Methods for Testing and Resolving Clashes
- Time-Based Clashing

Autodesk Rendering

- Autodesk Rendering Overview
- Adding materials to a Model
- Creating and Editing Materials
- Material Mapping
- Lighting
- Sun and Sky Lights
- Exposure Control
- Ground Planes
- Photorealistic Rendering

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