

 **AUTODESK**
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Certification Centre

Autodesk NavisWorks



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 **AUTODESK®**
REVIT® STRUCTURE 2014

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SAP 2000
INTEGRATED SOLUTION FOR
STRUCTURAL ANALYSIS & DESIGN

 **AUTODESK®**
**ROBOT® STRUCTURAL
ANALYSIS PROFESSIONAL
2014**

Autodesk NavisWorks Course :-

Course Description

- The Autodesk® Navisworks® training course instructs students in best approaches to combine 3D geometry from cross disciplines into one scene to enable effective model reviews. Through a hands-on, practice-intensive curriculum, students acquire the knowledge needed to review and markup the model, use TimeLiner, Animator, Scriptor, and Presenter, as well as the Clash Detective tools within Autodesk Navisworks. Using the functionality of the Autodesk® Navisworks® Review, Simulate, and Manage features, students learn how to open, review, and run object-interference checks on 3D models. Students also learn how to link to task-scheduling files and create 4D construction simulations. Using the Animator and Scriptor tools, students create interactive animations. In addition, students learn how the Presenter tools can help them create photorealistic images and animations.

Training Objectives

After completing this course, students will be able to:

- Describe the main features and functionality of Autodesk Navisworks.
- Open and append 3D files of different formats and save in the Autodesk 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 the validity of construction schedules.
- Use Animator and Scriptor to create interactive animations for presentations and demonstrations.
- Add true-to-life materials, and lighting and backgrounds to project models, to create photorealistic output.
- Perform interference detection tests between 3D files of different disciplines to check integrity of the design.



1. Autodesk®Navisworks® Training course

course	Duration hrs	Days
Autodesk Navisworks training course	24	6

Training materials : Autodesk official training materials

Prerequisites : Completion of Any Revit course or knowledge of 3D design and task-scheduling software

Attendance : (mechanical , electrical , structural , architecture) engineers & Drafters .

Certification : autodesk course completion certification.




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- Perform visual project model reviews using the built-in review and reporting tools.
- Create construction simulations of a project model to check the validity of construction schedules.
- Use Animator and Scripter to create interactive animations for presentations and demonstrations.
- Add true-to-life materials, and lighting and backgrounds to project models, to create photorealistic output.
- Perform interference detection tests between 3D files of different disciplines to check integrity of the design

Course outline:

• Day 1

Getting Started
NavisWorks Interface
3D Model Review
Selection Tree & Selecting Objects
Hiding Objects & Overriding Materials
Object Properties
Measuring & Moving Objects
Selection & Search Sets
Viewpoints
Comments & Redlining



- **Day 2**

Sectioning
Links
Comparing Models
Switchback
Navisworks Real-Time Rendering
Core Concepts
Navigating The Model

- **Day 3**

Appending/Merging Files
Animation
Configuring & Defining a Simulation
Timeliner Simulation
Core Concepts
Clash Detective
Creating Tasks
Gantt View
Import Tasks from External Project File
Simulation Export

- **Day 4**

Scripter
Creating & Managing Scripts
Events
Creating & Configuring Actions
Presenter Basics
Materials
Lighting
Backgrounds
Rendering



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- **Day 5**

Presenter Advanced Features
Editing & Managing Materials
Advanced Material Editing
Individual Light Effects
Light Scattering
Image-Based Lighting
Backgrounds & Reflections
Custom Rendering Effects
Custom Environments
RPC

- **Day 6**

Clash Detective
Setting Clash Rules
Clash Results
Clash Test Reporting
Audit Checks
Create & Save Batches of Clash Tests
Export & Import Clash Tests
Custom Clash Tests
Laser Scan Data Clashing
Holding & Releasing Objects
Switchback
Time-Based Clashing
Quantification
Integrating 2D Takeoffs
Using the 2D Markup Tools
Modifying Formulas





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