

Autodesk Navisworks Training Course

Course Overview

Course Length: 8-Hours

- 8-Hours – 4 x 2-hour training sessions
- Remote training over MS Teams
- Sessions are recorded and download links for each session are provided for future use
- Training for up to 1-3 people
- Sessions can start within 7 days upon ordering
- Flexible sessions (for example, consecutive or Monday, Wednesday, Friday)
- Courses are private and topics can be customised to suit
- Includes Certificate of Completion

The Autodesk Navisworks Using Autodesk Navisworks in a BIM Workflow course teaches you how to better predict project outcomes, reduce conflicts and changes, and achieve lower project risk using the Autodesk® Navisworks® Manage software in a BIM workflow.

Building Information Modeling (BIM) encompasses the entire building life cycle. BIM includes all phases of the design process, from model creation to construction and ending at operations and maintenance. Using a BIM workflow, you will learn how a design changes throughout the BIM process and how the changes affect the BIM model.

Over the course of this course, you will learn how to consolidate civil, architectural, structural, and MEP models into one BIM model. Starting with an Autodesk® Civil 3D® drawing file, you will append various Autodesk® Revit® and Autodesk® Inventor® models and check for conflicts.

Note: Clash Detection is only available in Navisworks Manage – it is not available in Navisworks Simulate or Navisworks Freedom.

Topics Covered

- Understanding the purpose of Building Information Modeling (BIM) and how it is applied in Autodesk Navisworks.
- Consolidating models.
- Navigating the Autodesk Navisworks workspace and interface.
- Creating a composite model.
- Transforming models for proper alignment.
- Reviewing and analysing models.
- Using basic viewing tools.
- Saving and retrieving views.
- Sectioning a model.
- Investigating properties.
- Searching for items.
- Hiding and unhiding items.

- Communication tools.
- Measuring a model.
- Adding tags and comments to model components.
- Marking up and redlining the model.
- Animating a model.
- Collaboration workflows.
- Reviewing a model for clashes.
- Consolidating redlines from other team members.
- Construction sequencing.
- Creating a construction timeline.
- Animating a construction timeline.

Prerequisites

This training course is designed for new and experienced users of the Autodesk Navisworks software in multiple disciplines. A working knowledge of 3D design and task-scheduling software is recommended.

Training Guide Contents

Chapter 1: Introduction to Autodesk Navisworks

- 1.1 What Is Navisworks?
- 1.2 Overview of the Interface
- 1.3 Using Basic Viewing Tools

Chapter 2: Consolidate Trade Models

- 2.1 Consolidating the Model
- 2.2 Aligning Models

Chapter 3: Review Models

- 3.1 Saving and Retrieving Views
- 3.2 Sectioning the Model
- 3.3 Setting View Options
- 3.4 Setting Up Appearances

Chapter 4: Analyze Models

- 4.1 Selecting Items
- 4.2 Investigating Properties
- 4.3 Using the Selection Tree
- 4.4 Finding Items and Saving Search Sets
- 4.5 Hiding and Unhiding Items

Chapter 5: Communication: Review and Mark Up a Model

- 5.1 Using Measuring Tools
- 5.2 Marking Up Scenes for Review

Chapter 6: Collaboration: Clash Detection

- 6.1 Overview of the Clash Detective
- 6.2 Setting Up Clash Tests
- 6.3 Reviewing Clash Results
- 6.4 Assigning Clash Fixes

- 6.5 Clash Grouping
- 6.6 Sharing Clash Test Results
- 6.7 Incorporating Model Updates

Chapter 7: Practices to Prepare for Animator

Chapter 8: Communication: Animator

- 8.1 Creating Tours
- 8.2 Animating Objects

Chapter 9: Construct: Project Scheduling

- 9.1 Introduction to TimeLiner
- 9.2 Manually Creating a Construction Simulation
- 9.3 Importing an External Task List
- 9.4 Combining TimeLiner and Animator
- 9.5 Time-Based Clashes