

## Course Outline

# Autodesk Navisworks 2026 – Fundamentals

### Course Duration

- **Total Duration: 2 Days (16 Hours)**
  - **Delivery Mode:** Instructor-led (classroom or virtual) with hands-on exercises
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### Course Description

This course provides a comprehensive introduction to **Autodesk Navisworks Manage 2026** in a BIM coordination workflow. Participants will learn to consolidate multidisciplinary models, review and analyze project data, detect clashes, perform quantification, simulate construction sequencing, and create visual outputs to enhance coordination and decision-making.

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### Target Audience

- BIM Coordinators / BIM Managers
  - Project & Construction Managers
  - Civil, Structural, Architectural, and MEP Professionals
  - Quantity Surveyors and Planners
  - New and intermediate Navisworks users
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### Prerequisites

- Autodesk Navisworks Manage 2026 installed (on-line)
  - Civil 3D Object Enabler (recommended)
  - Basic understanding of 3D models and BIM workflows
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### Learning Outcomes

Upon completion, participants will be able to:

- Navigate and customize the Navisworks interface
- Consolidate and align multi-disciplinary BIM models
- Review, analyze, and investigate model data
- Perform clash detection and coordination workflows
- Conduct 2D and 3D quantity takeoffs

- Create construction simulations and visual outputs
  - Communicate issues effectively using markups and viewpoints
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### **Module 1: Introduction to Autodesk Navisworks**

- Navisworks in the BIM lifecycle
- Navisworks Manage vs Simulate vs Freedom
- Core use cases in design and construction

### **Module 2: Interface Navigation & Viewing Tools**

- Workspace layout and customization
- Ribbon, dockable windows, Scene View
- Navigation tools: Zoom, Pan, Orbit, Walk, Fly
- ViewCube, camera options, realism settings

### **Module 3: Model Consolidation & Coordination**

- Appending and federating models
- Supported file formats
- Units, transforms, and alignment
- Revit and Civil 3D coordination concepts

### **Module 4: Model Review & Visualization**

- Creating and managing viewpoints
- Sectioning models
- Display options and render styles
- Grid and appearance controls

### **Module 5: Model Analysis & Investigation**

- Selection tools and selection resolution
  - Properties and Selection Inspector
  - Selection sets and search sets
  - Visibility control (hide, isolate)
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### **Module 6: Review, Measurement & Markup**

- Measuring tools and locking options
- Converting measurements to markups
- Tags, comments, and annotations
- Collaboration workflows

## Module 7: Clash Detection & Coordination

- Clash Detective overview
- Creating and managing clash tests
- Reviewing, grouping, and assigning clashes
- Clash statuses and reporting
- Updating models and re-running tests

## Module 8: Quantification & Takeoffs

- Quantification workflow overview
- Quantification workbook setup
- Item and resource catalogs
- 3D model takeoffs
- 2D takeoffs from drawings
- Exporting takeoff data

## Module 9: Animation, Scheduling & Visualization

- Animator: walkthroughs and object animation
- TimeLiner: construction sequencing basics
- Importing schedules
- Time-based simulations
- High-level rendering concepts and outputs

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## Assessment & Learning Approach

- Instructor-led demonstrations
  - Guided hands-on practices per module
  - Realistic BIM coordination scenarios
  - Review questions and workflow discussions
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