Navisworks for Construction Coordination Training Course

Professional Development Training Course Outline

Category	Architectural Engineering	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Navisworks for Construction Coordination Training Course is designed to equip learners with advanced BIM coordination, clash detection, 4D simulation, and construction project integration skills. In today's rapidly evolving AEC (Architecture, Engineering & Construction) industry, Navisworks has become a critical tool for improving project visualization, interdisciplinary coordination, construction sequencing, and risk reduction. This training empowers professionals to seamlessly integrate multi-disciplinary models and optimize construction workflows using cutting-edge digital construction technologies.

With increasing demand for BIM-driven project delivery, digital twin integration, lean construction practices, and cloud-based collaboration, Navisworks plays a vital role in ensuring accuracy and efficiency in complex projects. This course focuses on real-world applications such as clash detection optimization, 4D scheduling, model aggregation, construction simulation, and coordination reporting, enabling professionals to reduce rework, improve productivity, and enhance project delivery outcomes across infrastructure and building projects.

Programme Curriculum

Navisworks for Construction Coordination Training Course

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Course Duration

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Course Objectives

1. Master Navisworks Manage interface and BIM coordination workflows
2. Perform advanced clash detection and clash resolution strategies
3. Develop 4D construction simulation and project scheduling integration
4. Enhance multi-disciplinary BIM model aggregation techniques
5. Apply construction sequencing and visualization methods
6. Generate professional coordination reports and BIM documentation
7. Improve project collaboration using federated models
8. Implement construction risk identification through model analysis
9. Optimize workflow automation in BIM coordination environments
10. Strengthen interoperability between Revit, AutoCAD, and Navisworks
11. Apply Lean Construction principles using BIM tools
12. Manage digital construction workflows and data integration
13. Build expertise in BIM-based project delivery and coordination management

Target Audience

1. BIM Coordinators and BIM Managers
2. Civil and Structural Engineers
3. Architects and Design Professionals
4. Construction Project Managers
5. Quantity Surveyors and Planners
6. MEP Engineers and Coordinators
7. Construction Supervisors and Site Engineers
8. Students and Graduates in Construction-related Fields

Course Modules

Module 1: Introduction to Navisworks & BIM Environment

- Overview of BIM and Navisworks ecosystem
- Interface navigation and workspace setup
- File types and model import/export
- Understanding federated models
- Case Study: BIM setup for a commercial high-rise project

Module 2: Model Aggregation & Coordination Setup

- Combining multi-disciplinary models
- Setting up coordination workflows
- Managing file linking and updates
- Model hierarchy and structure control
- Case Study: Airport terminal model aggregation

Module 3: Clash Detection & Resolution

- Clash Detective tool overview
- Running automated clash tests
- Categorizing and grouping clashes
- Reporting and issue tracking
- Case Study: Hospital MEP clash resolution workflow

Module 4: 4D Simulation & Construction Scheduling

- Linking model with project schedule
- Time-based simulation setup
- Construction sequencing visualization
- Identifying schedule conflicts
- Case Study: Bridge construction 4D simulation

Module 5: Quantification & Data Extraction

- Model-based quantity takeoff
- Measurement tools and analysis
- Data export for cost estimation
- Integrating BIM with cost planning
- Case Study: Residential complex cost estimation

Module 6: Coordination Review & Reporting

- Viewpoints and markups creation
- Issue tracking and communication
- Generating coordination reports
- Collaboration workflows
- Case Study: Multi-disciplinary coordination review meeting

Module 7: Advanced Visualization Techniques

- Animations and walkthrough creation
- Rendering and presentation tools
- Simulation storytelling techniques
- Virtual construction visualization
- Case Study: Smart city infrastructure presentation

Module 8: BIM Collaboration & Project Integration

- Integrating Navisworks with Revit & AutoCAD
- Cloud-based collaboration workflows
- Model sharing and version control
- Digital construction management systems

- Case Study: Mega infrastructure BIM coordination project

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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