



AUTODESK/AUTOCAD TRAINING

Autodesk Navisworks Essentials Language Course

*Master Autodesk Navisworks to enhance project review, coordination, and 4D/5D simulations.
Learn essential tools for effective BIM collaboration.*

DURATION

Flexible

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The Autodesk Navisworks Essentials Language Course is designed for BIM professionals seeking to master the crucial art of project review and coordination. This intermediate-level course dives deep into Navisworks Manage and Simulate, empowering participants to effectively aggregate, analyze, and communicate project information across diverse disciplines. You will learn to integrate 3D models from various CAD software into a unified project model, gaining unparalleled insights into design intent and potential constructability issues.

This course specifically focuses on core Navisworks functionalities essential for streamlined project delivery. Key areas covered include advanced model navigation, powerful clash detection to identify and resolve interferences early in the design phase, and the creation of compelling 4D construction simulations for time management. You'll also explore quantification tools for cost estimation and learn to generate impactful visualizations that facilitate better decision-making among project stakeholders.

By completing this certification, you will not only enhance your technical proficiency but also significantly improve your ability to contribute to collaborative BIM workflows. The skills acquired will enable you to reduce project risks, minimize costly rework, and ultimately drive greater efficiency and predictability in construction and infrastructure projects, making you an invaluable asset to any project team.

Level	Intermediate
Vendor	Autodesk/AutoCAD

COURSE CURRICULUM

01 Module 1: Navisworks Interface and Model Fundamentals

- Introduction to Autodesk Navisworks Manage/Simulate
- Understanding the User Interface, Ribbons, and Workspaces
- Opening and Appending Models (NWD, NWC, DWF, DWG, RVT, IFC)
- Navigating the Model: Walk, Fly, Look Around, Pan, Orbit, Zoom
- Using the Selection Tree and managing Object Properties

02 Module 2: Model Review and Basic Analysis Tools

- Saving, Exporting, and Publishing Navisworks Files
- Creating and Managing Viewpoints and Animations
- Applying Measurement Tools (Distance, Angle, Area)
- Using Redline Tools for Markups and Comments
- Creating Sectioning Planes and Cutaways
- Introduction to Search Sets and Selection Sets for efficient object management

03 Module 3: Clash Detection and Reporting with Clash Detective

- Introduction to Clash Detective Workflow
- Setting Up Clash Tests (Hard, Clearance, Duplicates)
- Selecting Items for Clash Tests (Sets, Layers, Categories)
- Running, Reviewing, and Managing Clash Results
- Grouping Clashes and Creating Custom Clash Reports
- Exporting Clash Results for Communication and Resolution

04 Module 4: TimeLiner for 4D Construction Simulation

- Understanding 4D BIM and TimeLiner Fundamentals
- Setting Up Tasks and Activities in TimeLiner
- Attaching Model Objects to TimeLiner Tasks
- Configuring Simulation Settings and Appearance
- Running and Exporting Construction Simulations (4D)
- Comparing Planned vs. Actual Schedules

05 Module 5: Quantification, Presenter, and Collaboration

- Introduction to Quantification Workbooks for Material Take-offs (5D)
- Creating and Managing Quantification Items and Catalogs
- Exporting Quantity Data for Cost Estimation
- Introduction to Presenter: Materials, Lighting, and Rendering
- Creating Advanced Renderings and Animations for Presentations
- NWD Publishing Options for Collaborative Project Review

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **BIM Coordinator/Manager Assistant**
- > **Virtual Design and Construction (VDC) Specialist**
- > **Construction Project Engineer (focused on model coordination)**

FREQUENTLY ASKED QUESTIONS

Q: What prior experience or software knowledge is recommended before enrolling in the Autodesk Navisworks Essentials course?

This intermediate course assumes you have a foundational understanding of BIM concepts and experience with at least one authoring software like AutoCAD, Revit, or Civil 3D. While not strictly required, familiarity with reading construction drawings and basic project management workflows will significantly enhance your learning experience and application of Navisworks skills in real-world scenarios.

Q: How will mastering Navisworks Essentials specifically improve my ability to contribute to BIM coordination efforts on complex projects?

Upon completing this course, you will be equipped to aggregate models from various disciplines, perform robust clash detection to identify costly interferences early, and create compelling 4D construction simulations. These skills are critical for facilitating proactive communication, minimizing rework on site, and ensuring that integrated project models are well-coordinated, leading to more efficient and successful project delivery within a BIM environment.

Q: Beyond clash detection, what other practical applications of Navisworks will I learn that are highly valued in the industry?

Beyond essential clash detection, you'll gain practical skills in generating accurate material quantity take-offs using the Quantification tool, crucial for cost estimation and procurement. You will also learn to create dynamic 4D construction schedules (TimeLiner) for visualizing project timelines and progress, and produce high-quality visual presentations of integrated models. These capabilities are invaluable for stakeholder communication, progress tracking, and informed decision-making throughout the entire project lifecycle.

ABOUT COMPUTER PRIDE



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