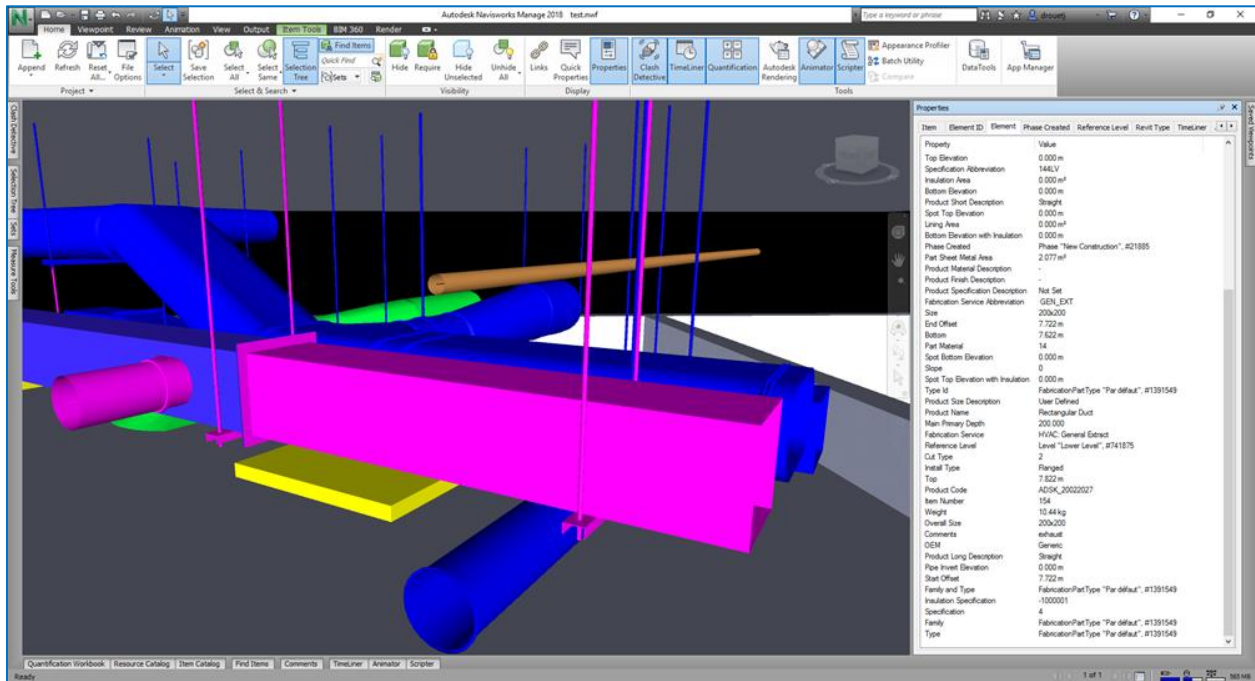




SC201: Autodesk Navisworks Architecture 2018

Training Description:

The Autodesk Navisworks Architecture intensive course designed to provide participants with comprehensive knowledge and practical skills in project review, coordination and clash detection using Navisworks. Navisworks is widely used in BIM workflows to integrate architectural, structural and MEP models for visualization, simulation and conflict resolution before construction.

This training course focuses on model aggregation, navigation, clash detection, 4D simulation, quantity takeoff and project collaboration. Participants will gain hands-on experience through real project models, coordination exercises and construction simulation tasks.

By the end of the training course, participants will be able to import and manage models from different disciplines, perform clash detection, generate coordination reports, simulate construction schedules and enhance project communication. The training course improves project coordination efficiency, reduces construction errors and supports effective BIM collaboration.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Understand the Navisworks interface and project environment
- ✓ Import and aggregate models from Revit and other design platforms
- ✓ Navigate and review 3D project models effectively
- ✓ Perform clash detection and manage coordination workflows
- ✓ Generate clash reports and track issue resolution
- ✓ Create 4D construction simulations using time schedules
- ✓ Conduct quantity takeoff and basic cost estimation
- ✓ Manage viewpoints, markups and collaboration tools
- ✓ Improve multidisciplinary project coordination

Training Designed for:

This intensive training course is intended for architects, BIM coordinators, project managers, construction engineers, planners, quantity surveyors and design professionals involved in model coordination and project review. It is suitable for professionals working in architecture, engineering and construction environments who want to strengthen their BIM coordination capabilities.

Training Requirement:

“Hands on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

INTRODUCTION TO NAVISWORKS AND MODEL NAVIGATION

❖ Understanding the Project Environment

- Overview of Autodesk Navisworks Architecture 2018
- Introduction to BIM coordination workflows
- Navisworks interface and tools
- Importing and aggregating models from different formats
- Navigating and reviewing 3D models
- **Practical exercise:** Combining and reviewing multidisciplinary models

DAY TWO:

MODEL REVIEW AND COORDINATION TOOLS

❖ Enhancing Collaboration and Communication

- Selection tools and object properties
- Creating viewpoints and saved views
- Sectioning tools and model interrogation
- Markups and redlining for design review
- Model comparison and change tracking
- **Workshop:** Reviewing and annotating a coordinated model

DAY THREE:

CLASH DETECTION AND ISSUE MANAGEMENT

❖ Identifying and Resolving Conflicts

- Introduction to clash detection concepts
- Setting up clash tests and rules
- Analyzing clash results and prioritizing conflicts
- Generating and exporting clash reports
- Tracking issue resolution and coordination meetings
- **Practical exercise:** Performing clash detection on a project model

DAY FOUR:

4D SIMULATION AND CONSTRUCTION PLANNING

❖ Visualizing Project Schedules

- Introduction to 4D simulation concepts
- Linking models to construction schedules
- Creating time-based simulations
- Visualizing construction sequences
- Identifying scheduling conflicts
- **Case study:** Developing a 4D simulation for a building project

DAY FIVE:

QUANTITY TAKEOFF AND PROJECT DELIVERY

❖ Supporting Cost and Project Control

- Quantification tools and item catalogs
- Measuring quantities directly from models
- Exporting quantity data for cost estimation
- Model optimization and file management
- Best practices for BIM coordination and project delivery
- **Final exercise:** Comprehensive coordination review and simulation presentation

- ❖ Course Conclusion
- ❖ POST-ASSESSMENT and EVALUATION

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

Aisha Relativo - Training & Career Development Manager

aisha@cmc-me.com / training@cmc-me.com

Tel.: +971 2 665 3945 or +971 2 643 6653 | Mob.: +971 52 2954615