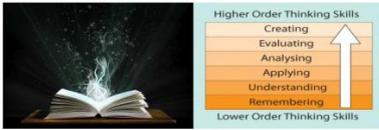




The Training Company



# The Training Company

## Building Information Management (BIM)

Building Information Modeling (BIM) is set to revolutionize the face of the architecture, engineering and construction industries. The dynamic building modeling software allows for the sharing of information and opportunity for collaborative team work that has never before been possible. Its relevance has been cemented by the recent UK Government announcement that all government construction projects must be utilizing the software by 2016. The implementation of the integrated software is absolutely essential for any business committed to staying on the forefront of building design and construction technology.

BIM is the future of the building design industry and is an essential skill for any professional wanting to advance their career.

### Overview

Users begin with learning the fundamental features of AutoDesk Revit Architecture and then progress through schematic design, construction documentation and design visualisation. Delegates will get the skills to use the tools and advanced techniques for creating complex designs and professional looking renders, creating and customizing objects and collaborating on designs with other members of their team using Revit Architecture.

With Autodesk Navisworks designers and collaborators can unite 3D models and BIM create a cohesive model for virtual design and construction tasks. With this model they can create rendered visualizations that are static or animated. Scan the model for conflicts with clash detection. Or use the model for 4D – time and cost. Review and communicate project details through 5D analysis and simulation.

BIM design tools from AutoDesk such as Revit, Navisworks allow for extracting views from a building model for drawing production and other uses. These different views are automatically consistent – in the sense that the objects are all of a consistent size, location, specification – since each object instance is defined only once, just as in reality.

- Revit Architecture 101: Yellow Belt – 3 days
- Revit Architecture 201: Green Belt – 3 days
- Navisworks 101: Yellow Belt – 2 days

### **Who is this course for?**

This package of courses is ideal for industry professionals – architects, engineers, BIM coordinators and BIM managers who would like to learn and understand the tool set required for BIM.

### **Assumed Knowledge**

A knowledge of Architectural design, drafting, or engineering experience is highly recommended. Working knowledge of Microsoft is essential.

### **What you will learn**

You will learn the concepts of Building Information Modeling and introduce the tools for parametric building design and documentation using AutoDesk Revit Architecture. Delegates will be able to confidently use Navisworks, Animator, Clash Detective, Presenter, Scripter, and TimeLiner tools to create, analyze, and animate models for coordinating designs across a variety of disciplines.

## **Revit Architecture 101: Yellow Belt**

- Introduction to AutoDesk Revit Architecture
- Basic Drawing and Editing Tools
- Datum Elements – Levels and Grids
- Drawing and Modifying Walls
- Doors and Windows
- Curtain Walls
- Creating Views
- Floors
- Components
- Reflected Ceiling Plans
- Roofs
- Vertical Circulation
- Construction Documents
- Annotating Construction Documents
- Tags and Schedules
- Detailing in Autodesk Revit Architecture

## **Revit Architecture 201: Green Belt**

- System Families II
- Subcomponents
- Curtain Walls II
- Family Editor
- Space Planning II
- Solar Study
- Visualization
- Rendering
- Walkthroughs
- Model Text
- Importing and Linking Files
- Revision Tracking
- Creating Legends
- Worksharing
- Monitoring

## **Navisworks 101 Yellow Belt**

- Workspace Overview
- Database Support (Data Tools)
- Selection Tree and Selecting Objects
- Object Properties
- Selection and Search Sets
- Animations, Sectioning, and Hyperlinks
- Comparing Models and SwitchBack
- Applying Materials to Model Items
- Adding Lighting Effects to a Scene
- Adding Background Effects
- Rendering Effects
- TimeLiner
- Simulation
- Manipulate Geometry Objects in an Animation Set
- Light Scattering
- SwitchBack in the Clash
- Custom Clash Tests

## **Here's what you get in the class.**

### **Blended Learning Experience**

With a blended learning at the course you'll really get to hit the ground running and give yourself the very best opportunity to get the most out of your learning experience. Blended learning is an approach to learning that blends technology with classroom instruction and is scientifically proved to be more effective than just classroom training alone.

We typically supply training videos that accompany your class for a blended learning experience or notes or a reference text, or in some cases both. Either way, we try to provide sufficient supporting material so that you can return to your work place with sufficient confidence to permit further learning.

For registration

Contact : The Training Company

Phone : 971-55-639-8386

Email : [ttc-bim-course-may-2016@atrc.net.pk](mailto:ttc-bim-course-may-2016@atrc.net.pk)