



This course is for General Contractors who are involved in projects utilizing Building Information Modeling (BIM) or looking to investigate BIM to gain a competitive advantage. This course is taught with Contractors as the main focus. Ideate will focus on why it is important to model, what information can be utilized and how it effects that construction process.

Prerequisites: It is required that students have a working knowledge of Microsoft® Windows® XP or Microsoft® Windows® 2000.

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Course Objectives

This course is designed to familiarize Contractors with the BIM process, specifically Revit Architecture and Navisworks Manage as tools for the construction process. This includes models provided by Architects as well as Contractors doing construction-based BIM coordination.

After completing this course, students will be able to:

- Recognize the difference between an Architect's BIM model and the Contractor's BIM (VDC) model
- Use Revit to edit existing models from the architect, MEP or structural engineer
- Use Revit to create additional content for pricing, cost estimating and coordination
- Utilize Revit to gather construction based data from the model for cost estimating and construction sequencing
- Recognize the difference between the Revit and Navisworks workflows
- Set up Navisworks project files, datasets, views and color sets
- Use Navisworks to run clash tests for field coordination meetings and construction simulations.

Who Should Attend

Contractors and Sub-contractors who are bidding on work that requires BIM. Also Construction companies that are looking for a competitive advantage in acquiring new work.

Course Outline

Day 1

Revit Basics

- Exploring the User Interface
- Navigating
- Creating Sheets and Printing
- Exporting to Navisworks and AutoCAD

Revit – Starting a Design

- Principles of project set up
- Adding and modifying levels
- Adding and modifying grids
- Creating a quick model using walls, floor, roofs, windows and door.
- Using civil data to create quick topo surfaces

Revit – Managing the Building Model

- Adding and modifying walls
- Editing wall assemblies
- Adding and modifying floors
- Editing floor assemblies
- Adding and modifying roofs
- Editing roof assemblies

Revit – Loading and Editing Additional Content

- Where to find free content on the web
- Downloading, loading and modifying manufacturer's content
- Adding additional components from the Revit library

Revit – Vertical Circulation

- Adding and modifying stairs and railings
- Adding and modifying ramps
- Things you should know about stairs and railings for quantity take offs

Revit – Viewing the Building Model

- Setting up sheets for printing
- Creating new sheets
- Exporting to AutoCAD
- Creating new views
- Adding 3D Views
- How to utilize the section box tool for model management in Navisworks

For questions regarding Ideate training please call: 888.662.7238
education@ideateinc.com

Cancellation/Rescheduling Policy:

Students may call to cancel a reservation and receive a credit toward future training up to ten business days before the class. Training credits expire one year from the issue date. If notification is received less than ten business days before the class, the cancellation charge will be the full class tuition. Payment is due per the terms of the invoice, regardless of when the class is completed. The student agrees to the Ideate Cancellation/Rescheduling Policy with issue of purchase order or any method of payment.

Day 2

Revit – Scheduling and Cost Estimating in Revit

- How to schedule anything
- How to add cost parameters
- How to do quick material take offs
- How to export your schedule to Excel

Revit to Navisworks – Exporting to Navisworks

- Things to think about in Revit
- Export option settings – What do they do?
- Creating an alignment Obelisk for coordination purposes

Navisworks – an Introduction

- What is Navisworks?
- User interface
- Workspace set-up

Navisworks – Project Set-up and Process

- Folder and file set up
- Color chart settings
- Aligning datasets
- View settings
- Creating selection and search sets
- Changing view colors and transparency

Navisworks – Clash Detection

- Setting up your first clash test
- Rules of the road
- Naming conventions
- Tolerances
- Results and Reports
- Updating your clash results for field coordination

Navisworks – Redlines and Markups

- Using the redline and mark up tools
- Adding and finding comments
- Exporting and Importing Your Markups and Clash Tests

Navisworks – Appending Your Data for Downstream Use

- Adding cut sheet, cost and maintenance data to the Navisworks model
- Navisworks Freedom Viewer
- Punch list Animations