

BIM for Project Managers

Brief Synopsis of Class Contents:

This class covers the essential knowledge a project manager should have to manage projects that are designed, delivered and constructed using Building Information Modeling tools, including Autodesk® Revit. A project manager must know the differences between CAD and BIM and how to harness the power of BIM and the opportunities it creates for better design, collaboration, coordination and delivery. Learn to set and manage expectations in proportion to the scope of services provided. Students will be introduced to the concepts of Building Information Modeling and the tools for parametric design and documentation.

Learning Objectives:

- Become familiar with the trends, concepts of Building Information Modeling
- Understand the fundamental benefits of Autodesk Revit parametric change engine
- Use model-based tools for project management, tracking and QA/QC
- Manage coordination, collaboration in a multi-discipline work-sharing workflow
- Learn about Project BIM Execution Planning (PxP)

Courseware:

Ascent Official Courseware:
Autodesk Revit for Project Managers

Number of Days:

2 Half Day Sessions

Continuing Education Hours:

7 hours

Who Should Attend:

All project managers who manage BIM projects

Prerequisites:

N/A

System and Software Requirements:

<http://www.asti.com/LiveLab-Learning-amp-Training/LiveLab-System-Requirements>

FAQs and Cancellation Policy:

<http://www.asti.com/LiveLab-Learning-amp-Training/LiveLab-FAQS>

Class Outline and Topics:

Introduction

- BIM, Project Delivery Methods & Trends
- BIM Adoption & Perceived ROI
- BIM for FM Concept
- BIM Proficiency
- Project Execution Planning
- Overview of PxP or BEP Procedures
- BIM Uses
- Information Exchanges
- Level of Development (LOD)
- Best-in-class BIM Tools
- AEC Project Workflows
- Multi-Discipline Collaboration
- BIM to COBie
- LOD Strategy

BIM in a Nutshell

- Articulate & Communicate Design Intent
- Forecast Project Cost & Project Schedule
- Better Coordination & Design Quality
- Space Management & Assets Tracking
- Analyze and Simulate

Challenges to Successful BIM Implementation

- BIM Vision, Goals & Adoption
- How do you see the world?
- What about BIM Relationships?
- Who models What?
- How much do I need to model?
- How to tap into the info rich models?
- Worksharing & Collaboration
- Project Manager Tools

Change Management

- BIM Proficiency
- Collaboration Tools
- BIM Skill Level
- BIM Uses – Planning Elements
- BIM Maturity
- Building Life Cycle Methodology

Best Practices

- Place Holder
- Avoid Duplication
- Frontloading (McLeamy Curve)
- Define a Process
- Managing Expectations at the BIM kick-Off

Do's & Don'ts

- Project Setup, BIM template

Hands-on BIM Overview

- Element Behavior in a Parametric Modeler
- Parametric Change Engine -Revit Quick Tour
- Modeling and Information
- Level of Development
- View Management
- Managing Expectations
- Design Review Paperless Workflow
- Worksets and Worksharing
- 360 Workflows
- Collaboration Tools
- Energy Analysis
- Area Analysis
- Overview of Lighting and solar analysis