



Theory	Practical	Total Course Length
107 Hours	107 Hours	214 Hours

Synopsis

This Architecture BIM Training course is designed for Students pursuing Diploma or Degree in Architecture or Working Professional to take their skill to new level with complete BIM technologies training. This will allow you to understand complete process of BIM in Architecture including Drafting, 3D Modeling, generating good for Construction Drawing, Clash Test & Project 4D & 5D Simulation.

Prerequisites

Trainee should have knowledge of Architectural Plans, Elevations & Section.
A basic understanding of computer’s operating system, launching an application, creating and saving files is a must.

What will you Learn ?

- Introduction to BIM process
- Understanding LOD (Level of Detail) Concepts
- 2D Design & Drafting Concepts
- Site & Conceptual Design
- Analysis for Sustainability
- Cloud Rendering
- Detailed Architecture BIM Modeling
- Structure & MEP BIM Modeling
- 3D Spatial Interference Analysis
- 4D Simulation Project Scheduling with BIM
- Bill of Quantity and Material Take Off Generation
- Generating Good for Construction Documents
- Team Collaborating with A360
- BIM 360
- Internship Training

Outline

Introduction to BIM Process

Understanding (LOD) Level of Detail Concepts

- History of Level of Detail
- Introduction to Level of Detail
- Types of Level of Detail
- AIA Standard LOD Table
- How to make LOD useful

2D Design & Drafting Concepts

- Creating Basic Architecture Drawing
- Manipulation & Altering Objects
- Annotating Drawings
- Working with Reusable Content
- Region Filled Pattern in Objects
- Standard Template
- Data Extraction
- Documentation

Site & Conceptual Design

- Creating Topo surface and adding site components
- Creating various building design forms

Analysis for Sustainability

- Calculating Heating and Cooling Loads
- Energy, Wind, Shadow and Lighting Analysis

Cloud Rendering

- Visualization of Image & Panorama Views

Detailed Architecture BIM Modeling

- Digital Prototyping of Architecture

Structure and MEP BIM Concepts

- Digital Prototyping of Structure (Reinforcement)
- Digital Prototyping of MEP (Plumbing Systems)

3D Spatial Interference Analysis

- Coordinating Building Elements
- Sharing Information Collaboration

4D Simulation

- Setting up Project Tasks
- Scheduling Project Tasks

Project Scheduling with BIM

- Managing Project in Phases

Bill of Quantity (BOQ) Generation

- Material take-off
- List of Quantities

Generating Good for Construction (GFC)

- Documentation Measurement & Label

As Built

- Team Collaborating with A360

BIM 360

- Glue, Field, Docs and Design

Internship Training

- Work on actual Projects in Professional Environment