

Vircon BIM Training – Intermediate Level for BIM Practitioners

Introduction

BIM object creation is important and helping to standardize elements within the BIM model. Object creation produces simplified versions of building products, providing an information-rich 3D model that is usable by Architects, Engineers, and Contractors. A comprehensive and usable BIM object library would facilitate daily operation and improve efficiency in design and construction of projects.

This 15-hour comprehensive course will lead the participants to learn the basic concepts and workflow of production of BIM objects. The relevant rules, guidelines, practices and regulations for BIM object will be introduced. The participant will learn how to develop the geometry model of BIM objects and set the parameters, set the detail level.

Learning Outcomes

Upon completion of this 15-hours training course, the participants will be able to understand the basic concepts of BIM objects and the workflow for family creation. The participants can create simple BIM objects with suitable drawing symbol and tag.

Course Name

BIM Object Creation Course (Intermediate Level)

Course Code for CITF: PBT19-017

Course Outline

1. Understanding Families (2 hours)
 - What are families?
 - Different kinds of families
 - Important of Purpose Driven BIM Object
 - Revit Family hierarchy, libraries and resources.

2. Fundamental Family Modelling (3 hours)
 - Concept of family category and subcategories.
 - Creation of solid and void geometry.
 - Concept of Family Parameter, Type and Instance Parameter.
 - Introduction of visibility control.
 - Creation and application of annotation families.

3. Advanced Family Modelling (4 hours)
 - Introduction of shared parameters.
 - Creation and application of parametric relationship.
 - Introduction of formulas.
 - Introduction of nested family.
 - Creation of rotation component

4. Hands-on Practice (4.5 hours)
 - Fan (Metric Mechanical Equipment)
 - Lighting Fixture (Metric Lighting Fixture)
 - Manhole (Metric Plumbing Fixture)
 - Introduction of CIC Production of BIM Object Guide - General Requirements and relative standards.

5. Assignment and End Assessment (1.5 hours)

Target Audience

1. Building Engineers working for Building / Structural Contracting Firms
2. BIM Modeler / Consultant working for Architectural, Structural, Quantity Survey and Building Services Consultancy firms, Building Project Management companies, and Developer of the Project.

Pre-requisite requirements

Basic knowledge* with hands-on experience in Revit is required;
Completion of Basic BIM training course is preferable
* Please refer to Vircon BIM Modelling Practical Course – Basic Level

Assessment:

Assignment and End Assessment

Award:

A certificate of completion will be awarded to the delegates with 80% of attendance and passing the end assessment.

Max. Class Size:

16 persons per class

Medium of Instruction

Chinese supplemented with English

Language of Training Materials

English

Duration for Training:

7.5 hours x 2 sessions (Full Time, FT) or
3 hours x 5 sessions (Part-time, PT)

Course Fee:

HKD3,000 per head