

## BIM Training – Foundation Course (Basic Level)

### **Introduction:**

The concept of BIM (Building Information Modelling) has existed since the 1970s and the term “ Building Information Model” first appeared in a 1992 paper by G.A. Nederveen and F.P. Tolman but it did not become popularly used until some 10 years later, around 2002.

BIM enables a virtual information shared-based model to be handled from the design team (architects, surveyors, engineers of various disciplines), main contractors, sub-contractors to the owner / operator of the building. This reduces information losses that traditionally occurred when a new team takes ‘ownership’ of the project, and provides more extensive information to owners of the project.

Use of BIM goes beyond the planning and design phase of the project, extending throughout the building life cycle, supporting processes including cost management, construction management, project management and facility operation.

### **Learning Outcomes:**

Upon completion of this two-day training course, the participants will be able to have a basic understanding of BIM Models, and how BIM is able to help managing the project program, tracking the work progress of each trade and reducing abortive work done.

### **Course Description:**

#### **BIM Modelling Practical Course – Basic Level**

Course Code for CITF: PBT19-041

### **Course Outline:**

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|---|-------------|
| 1. Introduction of BIM, BIM Standards, BIM Software and BIM Model | (0.75 hour) |
| 2. Role of BIM Manager, Modeler, Consultant and Engineer          | (0.25 hour) |
| 3. Revit Interface  | (1 hour)    |
| 4. Basic Operations   | (1 hour)    |
| 5. Basic setting for BIM Modeling environment                     | (1.5hours)  |
| – Import CAD  |             |
| – Define project base point                                       |             |
| – Add project levels and grids                                    |             |
| 6. Parametric BIM Modeling  | (4 hours)   |
| – Column, Walls, Floors windows                                   |             |
| - Windows, Doors  |             |
| – Load Families   |             |
| 7. Definition and editing of element properties                   | (2 hours)   |
| – Create Materials  |             |
| – Apply Materials   |             |
| - Edit parameters   |             |
| 8. Create Filter  | (1 hour)    |
| 9. Create Schedule  | (1 hour)    |
| 10. Creation of drawing sheets                                    | (1 hour)    |
| 11. Assignment and End Assessment                                 | (1.5 hours) |

**Target Audience:**

1. Building Engineers or BS Engineers working for Building / Structural / Building Services Contracting Firms or
2. Those are interested in BIM Use

**Pre-requisite requirement:**

Nil

**Assessment:**

Assignment and end assessment

**Award:**

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

**Max. Class Size:16**

**Medium of Instruction:** Cantonese 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