



BIM PROFICIENCY TRAINING

# FUNDAMENTAL MODELLING OF STRUCTURE

## COURSE OUTCOME:

The developments of the course outcome are based on the international and local standards of scope of work, defined for BIM modellers roles and responsibilities. It is therefore, targeted at skill sets to develop competency in hands-on technical skill, BIM knowledge and pro-active problem solving which tailored to suit local requirement. Upon successful completion of this course, the participants are expected to be able to:

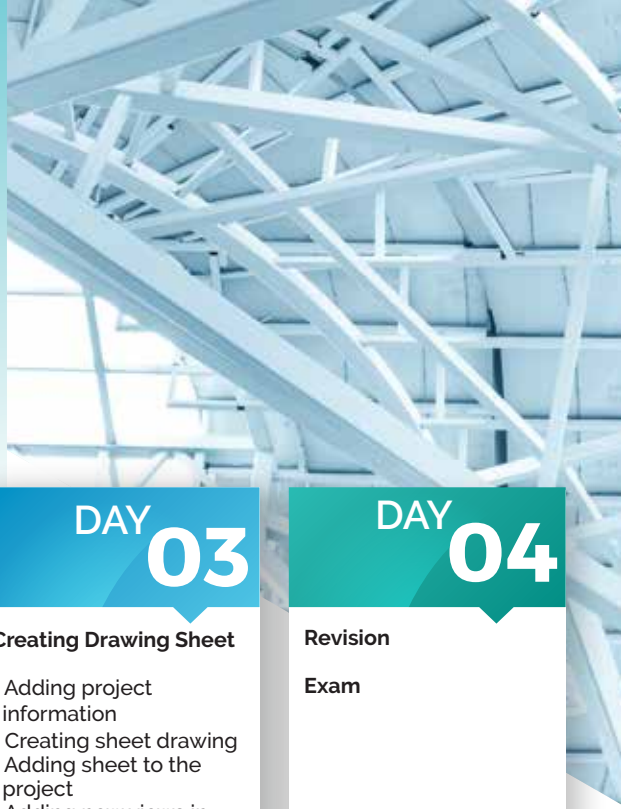
- Operate a 3D parametric modelling tool
- Interpret design intent to be used in technical modelling
- Develop a 3D BIM model appropriately
- Extract and prepare related design deliverables such as drawings, material schedule, schedule of accommodation and etc.
- Utilise 3D BIM model as interaction, communication and collaboration tools
- Apply BIM based process flow of technical modelling
- Identify problems and associated challenges in delivering BIM based process flow

## Pre-Requisite :

- Working knowledge of Microsoft® Windows® Operating Systems
- Knowledgeable of architectural design, drafting, or engineering I CAD drafting or modelling experience in building and construction project is an extra advantage
- Basic knowledge of BIM tools and concept
- Has attended BIM Fundamental Concept and Theory.

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## COURSE OUTLINE:

### DAY 01

#### Introduction

- Introduction to basic concept
- Introduction to Revit interface
- Revit features and function
- Model navigation

#### Creating Structure Modelling

- Link with architecture model
- Copy monitor (levels)
- Create new views in structural plans
- Importing drawing files
- Adding grid lines to imported drawings

### DAY 02

#### Creating Structure Modelling (Cont)

- Customization component family libraries
- Adding structural columns & rectangular beams to the levels
- Creating structural floor
- Creating load bearing wall
- Draw wall opening
- Adding stumps, pile caps & square piles

#### Modelling Output

- Schedules/Quantities
- Calculate & produce total quantities in the schedule

#### Annotation and Tagging

- Labelling & tagging
- Dimensioning

### DAY 03

#### Creating Drawing Sheet

- Adding project information
- Creating sheet drawing
- Adding sheet to the project
- Adding new views in sheets

#### Creating Component Libraries

- Creating pile caps families
- Setup pile caps libraries parameters & pile caps material parameter
- Setup square piles parameters & square piles material parameter
- Create CIBD title block
- Setup parameters & text
- Inserting image in title block

### DAY 04

#### Revision

#### Exam

## FOR MORE INFORMATION:



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## PAYMENT

Account Name : Uni-Technologies Sdn Bhd  
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Account No. : 8006056882  
Method Transfer : Electronic Fund Transfer (EFT)\*  
Kindly send proof of payment to [bimcdis.act@utm.my](mailto:bimcdis.act@utm.my)