

RM

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**RM 2000**  
SUBSIDISED BY  
**CIDB**

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**1500**

## BIM PROFICIENCY TRAINING

# FUNDAMENTAL MODELLING OF ELECTRICAL

### OBJECTIVE:

The developments of the module outcome are based on the international and local standards' scope of works, 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 module, the participants are expected to be able to:

- a) Operate a 3D parametric modelling tool interface including setting up and beginning a project.
- b) Interpret design intent to be used in technical modelling as a demonstration for early coordination of different aspects of the design.
- c) Develop a 3D BIM electrical model appropriate to the intended level of details.
- d) Extract and prepare related design deliverables such as drawings, material schedule, and etc.
- e) Utilise 3D BIM model as interaction, communication and collaboration tools.
- f) Apply BIM based process flow of technical electrical modelling.
- g) Identify problems and associated challenges in delivering electrical BIM based process flow.

### PROGRAM PRE-REQUISITE:

- a) Working knowledge of Microsoft® Windows® Operating Systems
- b) Knowledgeable of architectural design, drafting, or engineering
- c) CAD drafting or modelling experience in building and construction project is an extra advantage
- d) Basic knowledge of BIM tools and concept
- e) BIM Fundamental Concept and Theory

# BIM PROFICIENCY TRAINING

## FUNDAMENTAL MODELLING

### OF ELECTRICAL

#### Phase 1

##### MODEL NAVIGATION

- a) The nature of parametric tools
- b) Model review and navigation
- c) Show and hidden model element of a building
- d) Presentation of design intent
- e) Fundamental concept of electrical BIM modelling

#### Phase 2

##### MODEL AUTHORIZING

- a) Extraction information from schematic & shop drawing
- b) Setting up project template
- c) Import CAD
- d) Linking model and copy monitor
- e) Load and editing family
- f) Placement and routing component
- g) Interference check and manage system browser

#### Phase 3

##### DELIVERABLE EXTRACTION

- a) Schedules/Quantities of materials
- b) Tagging and annotation for drawings
- c) Title block setup and drawing preparation

#### Phase 4

##### BIM MODELLER CERTIFICATION

- a) BIM Modelling revision
- b) CIDB BIM M&P Modeller Exam

#### FOR MORE INFORMATION:



011-61193625 (En. Yusuf)

<http://bim.utm.my/>

[bimcds.act@utm.my](mailto:bimcds.act@utm.my)

Universiti Teknologi Malaysia

#### PAYMENT

Account Name : Uni-Technologies Sdn Bhd

Bank Name : CIMB Bank Berhad

Account No. : 8006056882

Method Transfer : Electronic Fund Transfer (EFT)\*  
Kindly send proof of payment to [bimcds.act@utm.my](mailto:bimcds.act@utm.my)