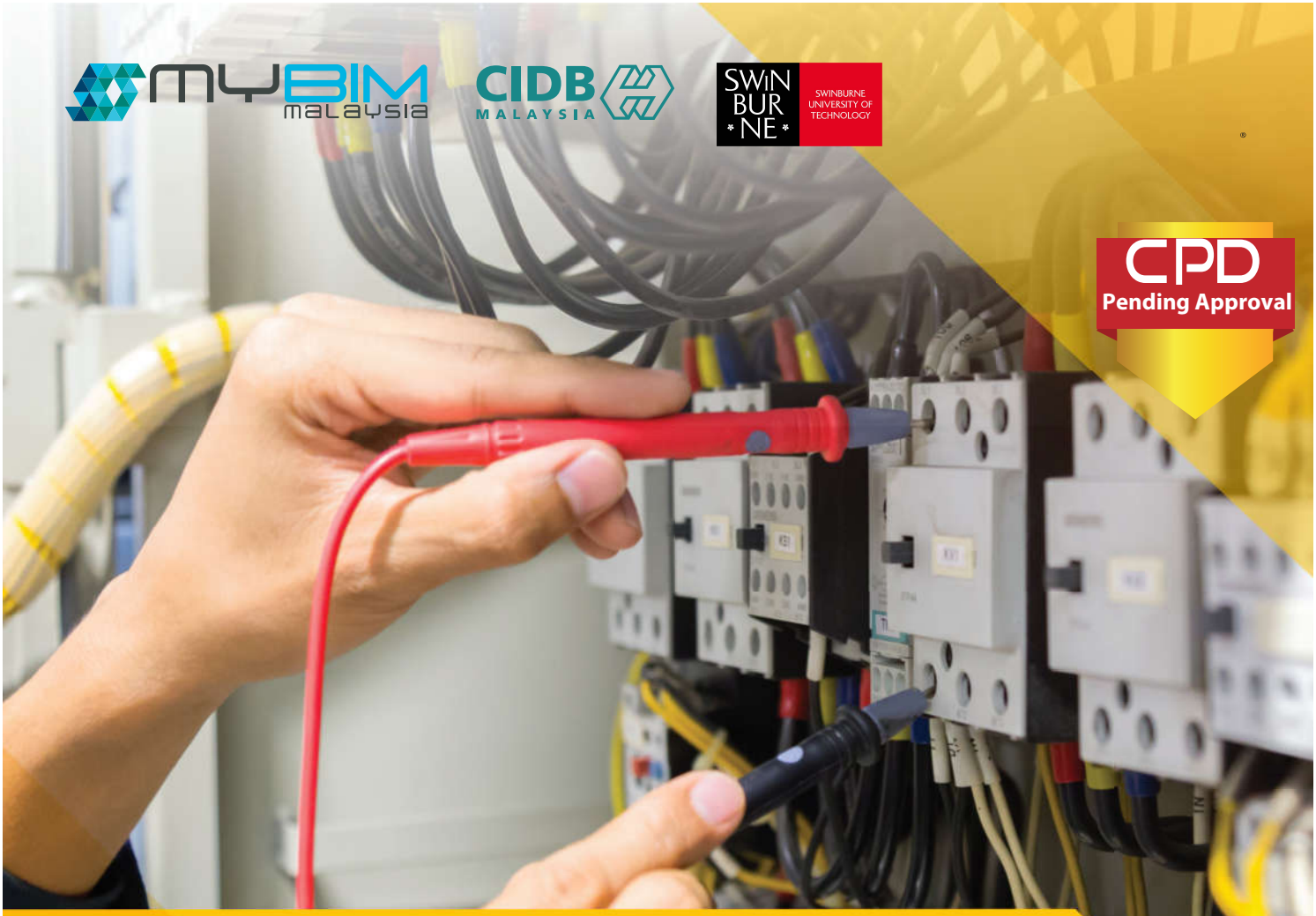

CPD
Pending Approval

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 modeler's roles and responsibilities. It is therefore, targeted at skillsets 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:

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

**Pre-Requisite :**

- **Has attended BIM Concept & Theory**
- **Knowledgeable in architectural design, engineering or construction**
- **Basic knowledge of BIM tools and concept**

BIM PROFICIENCY TRAINING

# FUNDAMENTAL MODELLING OF ELECTRICAL

## COURSE OUTLINE:

**DAY 01 — MODEL NAVIGATION**

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

**DAY 02 — MODEL AUTHORING**

- Extraction information from schematic & shop drawing
- Setting up project template
- Import CAD
- Linking model and copy monitor
- Load and editing family
- Placement and routing component
- Interference check & manage system browser

**DAY 03 — DELIVERABLE EXTRACTION**

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

**DAY 04 — BIM MODELLER CERTIFICATION**

- BIM Electrical Modelling revision

**DAY 05 — EXAM**

- CIDB BIM Electrical Modeller Exam

## FOR MORE INFORMATION:


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https://www.swinburne.edu.my/academic-school/short-courses

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