

BIM PROFICIENCY TRAINING

FUNDAMENTAL MODELLING OF MECHANICAL & PLUMBING

OBJECTIVE: ●

The developments of the course outcome are based on the international and local standards of the scope of work, defined for BIM modelers' 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 completion, the participants are expected to be able to:

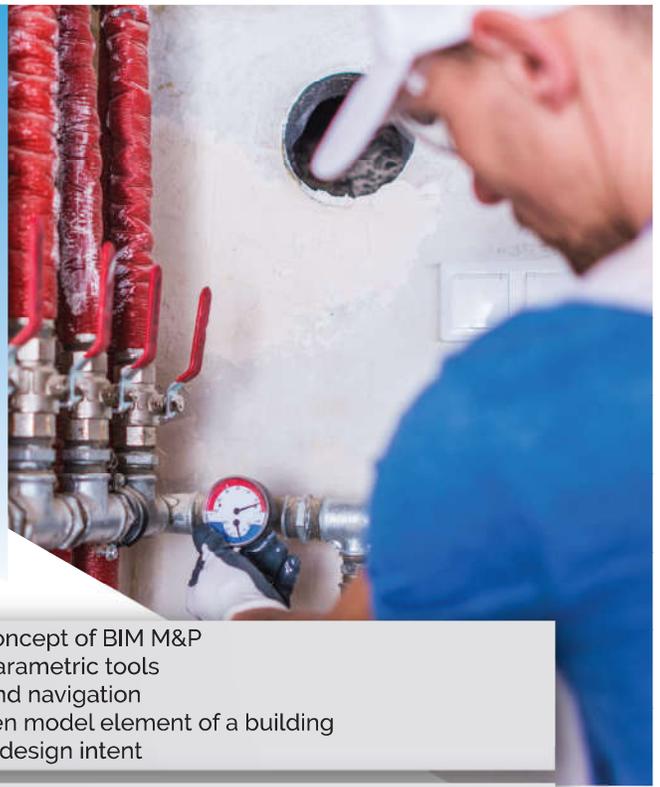
- Operate a 3D parametric modelling tool.
- Interpret design intent to be used in technical modelling for M&P of a building.
- Develop a 3D BIM-M&P model appropriately.
- Extract and prepare related design deliverables such as drawings, material schedule, schedule of accommodation, etc.
- Utilize 3D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

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COURSE OUTLINE:

DAY 01 THEORETICAL & MODEL NAVIGATION

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

DAY 02 MODEL AUTHORIZING

- Extraction information from schematic & shop drawing
- Setting up project template
- Setting up elevation & gridline by copy monitor
- Link CAD drawing
- Placement of mechanical & plumbing components
- Duct and pipe routing for the mechanical & plumbing system
- Interference check & manage system browser

DAY 03 DELIVERABLE EXTRACTION

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

DAY 04 BIM MODELLER CERTIFICATION

- BIM M&P Modelling revision

DAY 05 EXAM

- CIDB BIM M&P Modeller Exam

FOR MORE INFORMATION:



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



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