



BIM PROFICIENCY TRAINING

# FUNDAMENTAL MODELLING OF INFRASTRUCTURE (ROADS & HIGHWAYS)

## 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 requirements. Upon successful completion of this module, the participants are expected to be able to:

- Operate a 3D dynamic modelling tools
- Translate the design intent that will used in developing a technical model
- Develop a 3D BIM Infrastructure (Roads & Highways) model
- Produce and provide relevant design results such as drawings, list of materials, etc
- Use BIM 3D model as a tool of interaction, communication and collaboration
- Apply BIM-based technical modelling process flow
- Identify problems and challenges associated with the generation of 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

- Fundamental BIM Infrastructure (Roads & Highways)
- Introduction to BIM authoring tools
- Managing survey data

DAY  
02

- Creating surface
- Screating road alignment
- Creating and calculating superelevation

DAY  
03

- Creating assemblies and inserting sub assemblies
- Creating corridor and intersection

DAY  
04

- Sample lines, cross section views and compute materials
- Plan production and reports
- Design collaboration

DAY  
05

- CIDB Fundamental Modelling Of Infrastructure (Roads & Highways) Exam

## FOR MORE INFORMATION:



+60 82 260631



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



Swinburne University of Technology Sarawak Campus  
Jalan Simpang tiga, 93350 Kuching, Sarawak, Malaysia

