



Half-Day Seminar

The Digital Site: Transforming Architecture and Infrastructure with Smart Workflows

Synopsis

This session is designed to bring together architects, civil & structural engineers to explore how to connect early-stage design in Forma with detailed design and engineering with Revit, Civil 3D and InfraWorks for a seamless BIM and GIS-integrated process..

In this workshop, you will:

Conceptual Design in Forma

- Early-stage massing, sustainability analysis, and site feasibility
- Develop building massing and analyze energy, wind and daylighting
- Export massing to Revit for detailed architectural design or to InfraWorks for Infrastructure planning

Site Context & Infrastructure Planning in InfraWorks

- Large-scale infrastructure planning and integration with GIS data
- Import Forma model into InfraWorks for contextual urban analysis
- Export the site and infrastructure elements to Civil 3D for detailed engineering

Detailed Civil Engineering in Civil 3D

- Precise engineering for roads, grading, earthworks, and utilities
- Import topography and road alignments from InfraWorks
- Create grading, cut & fill analysis
- Export final topography and infrastructure models back to Revit for coordination

Design Collaboration & Coordination

- Manage project in Autodesk Docs
- Collaborate Design with Multi-Discipline Workflows
- Model Coordination & Clash Detection
- Design Issue Tracking & Review



17 April 2025 (Thu)



12.00pm – 6.00pm



**IEM Penang Secretariat,
1-04-02, eGate, Lebuhr Tunku Kudin 2,
11700 Penang**

**IEM Member : FOC
PAM Member: FOC
Non-IEM Member: RM60**

**BEM CPD Hours: 4
Ref: IEM25/PG/086/S**

PAM CPD Hours: 4

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In collaboration with:



About the Speakers



Ts. Poo Teng Soo holds a Bachelor of Engineering (Hons) in Civil Engineering from Universiti Sains Malaysia. He is a registered Professional Technologist and a registered ASEAN Engineering Technologist for AFEO.

Ts. Poo is currently the Vice President of Technological Association Malaysia, Tekla Structure Advanced level certified and BIM modeler (Architectural and Structure) CIDB certified. He has more than 21 years of experiences in the industry and actively involved in the Malaysia Construction industries and the education industries.



Ms. Naadhirah Zulkifli

With over eight years of experience in the Architecture, Engineering, and Construction (AEC) industry, Ms. Naadhirah has transitioned from a Quantity Surveyor to an Autodesk Technical Consultant, specializing in pre-sales, post-sales, and digital transformation. Her expertise spans Autodesk AEC solutions, BIM workflows, and construction technology, helping professionals and organizations adopt efficient, future-ready workflows. As an Autodesk speaker and trainer, she conduct hands-on workshops, technical presentations, and industry discussions, focusing on BIM adoption, Civil 3D, InfraWorks, Autodesk Construction Cloud (ACC), Revit, and more.

Her mission is to bridge the gap between traditional CAD-based workflows and digital BIM-driven processes, ensuring industry professionals stay ahead in the evolving construction landscape.

Agenda

Time	Program
12.30pm - 1.30pm	Registration & Lunch
1.30pm - 2.00pm	Introduction of Autodesk Ecosystem & Conceptual Design in Forma
2.00pm - 3.00pm	Site Context & Infrastructure Planning in InfraWorks
3.00pm - 3.30pm	Tea Break
3.30pm - 4.30pm	Detailed Civil Engineering in Civil 3D
4.30pm - 5.30pm	Design Collaboration & Coordination
5.30pm - 6.00pm	Q&A and Lucky Draw