

SBL HRDF CLAIMABLE TRAINING

# HANDS-ON DESIGN COURSE: PRECAST CONCRETE DESIGN WORKSHOP

Organised by



**Training Dates: Please refer to our training calendar**

**Armada Hotel, Petaling Jaya**

**(CCD Points to be applied and updated)**

**(Note: We can also cater for clients' proposed dates and venues. T&C apply)**

## The Modules – New and Improved Content

**Part 1** – The training course will cover principles and considerations in designing for precast concrete construction, structural forms, load paths, structural stability, progressive collapse, design of precast concrete components (hollow core slabs, precast pre – stressed planks, precast concrete beams, walls, columns etc.) and designs of precast joints and connections. **The course provides an exclusive hands – on training for all who wish to develop in – depth knowledge on precast concrete design methods. The participants will return for Part 2 after two weeks' time of preparation.**

**Part 2** – The second part of this precast concrete design series is the application of Part 1 design knowledge in real building projects chosen by the participants. The participants will perform structural scheming in precast concrete construction, carry out building stability analysis, design of precast concrete members and their connections. The participants will be required to present their designs and receive feedback for improvement in this interactive workshop. **Also open to non-engineers or those who didn't attend Part 1, i.e. guidance will be provided for precast project planning based on the drawings.**

## Who Should Attend

This course is open to government clients, developers, architects, engineers, manufacturers and other industry players.

## Objectives/Benefits of Training

- Understand the principles and considerations in designing for precast concrete construction, structural forms, load paths, progressive collapse, etc.
- Design precast components including hollow core slabs, planks, precast concrete beams, walls, columns, etc.
- Develop an in – depth understanding of the principles as well as to perform designs of precast concrete joints and connections.
- Kick – start a precast design project and performing scheming of precast elements, design elements and connections based on real building project.

## Your Investment

RM 3,888/pax (Part 1) | RM 2,888/pax (Part 2)

RM 5,888/pax (covering Part 1 and Part 2) or

RM 5,388/pax for 3 or more participants from the same company.

The training fee is claimable under SBL HRDF. Please refer to your Training Manager for guides. Inclusive of training notes and certificate. Refreshments & Lunch will also be provided.

## The Facilitator



**Dr HS Lai** obtained his undergraduate and post graduate degree in Civil Engineering from the University of Leeds, England. He is a registered Professional Engineer in Singapore and has more than 30 years of experience in the design, supervision and management of building projects in residential, healthcare, commercial offices, institutional, security, industrial and building conservation. His main expertise is in the design and construction with precast concrete. He participates actively in the promotion of buildable structural system for the construction industry and has conducted numerous training courses and lectures in precast concrete design for professional structural engineers for BCA-CITI, Singapore since 1998.

He was the principal author of **Structural Precast Concrete Handbook and Design for Manufacturing and Assembly (DfMA) – Connections for Advance Precast Concrete System**; both design handbooks were commissioned and published by the Building Construction Authority of Singapore. Dr Lai is presently a principal of Advan-TIS Consultants LLP; a specialist consultant in the design and management of precast concrete construction. Since its inception in 2009, the company has now extended its consultancy services overseas in Malaysia, Thailand and India.

# TRAINING REGISTRATION FORM



Please provide all details and send the completed form and proof of payment to [binatech.sfi@gmail.com](mailto:binatech.sfi@gmail.com) / 012-305 8086. Registration Dateline: 2 weeks before each event. Thank you and enjoy the training!

Module: \_\_\_\_\_ Training Date: \_\_\_\_\_

No	Name of Participant	Designation	Academic Qualifications	Years Technically Involved in Building Construction	Mobile Phone No.	Email
1						
2						
3						

Total = RM \_\_\_\_\_ / pax x \_\_\_\_\_ nos. of pax = RM \_\_\_\_\_. Attached is the proof of payment to CIMB Islamic Acc No: 8600 22 9695 Innovacia Sdn Bhd.

Contact Person Name: \_\_\_\_\_ Company: \_\_\_\_\_

Hphone: \_\_\_\_\_ Email: \_\_\_\_\_ Address: \_\_\_\_\_

## About Innovacia Sdn Bhd – CIDB & HRDF Registered Training Provider IBSxBIM

**Innovacia** specialises in Prefabricated Construction Technology (Industrialised Building Systems, IBS) and ICT. The company offers:

1. Training: CIDB IBS Professional Modules, Precast Concrete Design Workshop Part 1 & Part 2, IBS Shop Drawings Using CAD/BIM, BIM-based IBS Score Submission, Introduction to Business Excellence in Construction, Reinforced Concrete Design to Eurocode 2 (EC2), Development of Android Mobile Apps & Database, Leading & Managing Change in a VUCA World and many other topics
2. Research: Construction & Prefab / IBS Advisory (Product & Project Technical Assessment, Industry Research, Training Module Development), Customised Software Development
3. Publications: *binaTECH* – Construction Technology & Living Trends Magazine, Customised Publications
4. ICT Solutions: *TiffinBIM* - Affordable CAD/BIM Software, *axdea* (BIM-based IBS Score Calculator), *Innovacia Mobile* (Construction & Other Productivity Apps), *Innovacia VR/AR* (Virtual & Augmented Reality Solutions)

**FOR EVENT ENQUIRIES:**  
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