建造專業進修院校 SCHOOL OF PROFESSIONAL DEVELOPMENT IN CONSTRUCTION

香港建造學院 HONG KONG INSTITUTE OF CONSTRUCTION

MICP
Master Class on MiC Project Implementation (Project Managers)
建造業議會大師級培訓課程：組裝合成建築（項目經理）

This course aims to build industry capacity for supporting the development and adoption of MiC in the Hong Kong construction industry. It provides the participants with the opportunity to develop practical competence to solve MiC project implementation problems and hence extends their experience in problem-solving and technology-enabled MiC project management.

Upon successful completion of the course, participants are expected to be able to:

1. Recognize the development and trends of high productivity construction, and appraise the mindset shift towards OSC approaches in the construction industry;
2. Develop problem-solving capabilities and propose innovative built environment solutions for a realistic development of MiC projects;
3. Evaluate proposed solutions in terms of time, cost, quality, safety, sustainability and compliance with legislations/regulations in MiC project implementation; and
4. Promote changes in practice towards integrated and technology-enabled MiC project delivery and hence improve construction project performance in the Hong Kong construction industry.

Lecturer 講師	Professionals 專業人士
Medium of Instruction 授課語言	Cantonese (supplemented with English technical terms) and/or English 廣東話輔以英文技術用語 及/或 英語
Mode of Attendance 授課形式	Part-time day course 日間部份時間制
Duration 授課期	3 hours x 7 sessions 3 小時 x 7 堂
Award of Certificate 證書頒發	Students must meet the following requirements in order to be considered having successfully completed the programme and receive the Completion Certificate: • Achieve 85% attendance rate (i.e. absence for a maximum of 3 hours) • Pass the Final Assessment (i.e. 50 marks or above)
Venue 上課地點	HKIC, Kowloon Bay Campus, 44 Tai Yip Street, Kowloon Bay, Kowloon 九龍 九龍灣大業街 44 號 香港建造學院 九龍灣院校
Admission Requirements 入學條件	• Holder of a Bachelor degree in an architectural, engineering or construction-related discipline; OR • Being a member of professional institution in an architectural, engineering or construction-related discipline at member level or above; OR • Should be (i) involved / to be involved in advanced construction projects, (ii) with at least 5 years working experience in construction industry, and (iii) nominated by the employer.
Course Fee 課程費用	$6,830.00
Enquiry 查詢課程	2100 9000 / 3199 7217 / 2100 9809
Application Method 報名方法	Please apply online on SPDC portal 請透過建造專業進修院校的 網上報名系統 報名

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Course Content 課程內容
1. An Overview of MiC Eco-system in the Construction Industry • Current Status, Forecast and Trends of MiC Development (Local and Overseas) • MiC-related Policies & Supply Chain Establishment for Hong Kong • Development of MiC Eco-system in the Hong Kong Construction Industry
2. A holistic approach towards the adoption of MiC: BIM-enabled Design Process, Statutory Requirements, and KPIs for MiC Projects (Part 1) • MiC Process, Design Considerations; and Statutory Requirements • Integrated BIM-enabled Design Process for MiC Project Implementation
3. A holistic approach towards the adoption of MiC: BIM-enabled Design Process, Statutory Requirements, and KPIs for MiC Projects (Part 2) • MiC Project Setup and Planning; Risk Control Approaches to meet KPIs for MiC Projects – Client Perspective • MiC Project Planning; Design for risk mitigation approaches to meet KPIs for MiC Projects – Designer Perspective • MiC Project Setup and Planning; Risk Control Approaches to meet KPIs for MiC Projects – Contractor Perspective
4. Procurement of MiC Projects in the Hong Kong Construction Industry • Overall MiC Project Contractual Arrangements for Offsite and Onsite Production • Selection of Procurement Strategies; ECI and Contractor's Design Responsibility • Partnership between Main Contractor and MiC vendors; • MiC Project Contractual Arrangements for Offsite Fabrication Works
5. (1) Application of Digital Technologies for QA/QC for Offsite and Onsite; (2) Logistics and Transportation Management for MiC Projects • Application of associated digital technologies for the progress development of MiC projects: Offsite module fabrication workflows and QA/QC inspections; Onsite module installation workflows and QA/QC inspections • Considerations for transportation of MiC Modules: Land Transport and Marine Transport • Delivery of wide loads; traffic regulatory requirements/compliance; custom duty and tax; JIT delivery and pickup point for MiC projects
6. (1)Sustainable Construction and Achieving Net-Zero through MiC Projects; (2)Construction Safety for MiC Projects • Overview of different types of Large Language Models • Key characteristics and use cases • Understanding training data and algorithms • Case studies demonstrating LLM effectiveness

7. Integrated high productivity construction (Group Projects)

- A series of three 1-hour sessions for group project presentation-discussion
- Participants will form three separate Study Teams (8-9 members in each group) to conduct their own study for 3 real-life MiC projects in Hong Kong.

- A list of three proposed real-life MiC projects for the Study Teams:
- MiC Project (1): Public Housing Development at Tung Chung Area 99
- MiC Project (2): Tonkin Street Redevelopment Project
- MiC Project (3): Hung Shui Kiu 1A Project (1A Project) OR
- MiC Project (4): The Hong Kong Girl Guides Association HQ & Youth Hostel