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

SYST
FCE Academy x Master Class: Practical Applications of System Thinking
FCE Academy × 大師級培訓課程：系統思維實務應用

The course aims to provide participants with a comprehensive understanding of the interconnectivity between various systems, such as built environment, social systems and economic system. By fostering collaboration among stakeholders and leveraging cutting-edge digital technologies, the course seeks to address sustainability challenges from a holistic perspective.

Lecturer 講師	Professionals 專業人士
Medium of Instruction 授課語言	English 英語
Study Mode 課程制式	Part-time day course 日間部份時間制
Duration 授課期	7 hours 7小時
Venue 上課地點	CIC-Zero Carbon Park, Kowloon Bay, Kowloon 九龍 九龍灣建造業零碳天地
Admission Requirements 入學條件	• Holder of a bachelor's 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 have at least 5 years of working experience in the construction industry AND nominated by the employer.
Award of Certificate 證書頒發	Students must meet the following requirement in order to be considered having successfully completed the programme and receive the completion certificate: • Achieved 100% attendance rate • Pass the assessment
Course Fee 課程費用	HK$5,930.00
Enquiry 查詢課程	2100 9000 / 2100 9655 / 3199 7217
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. Introduction to Systems Thinking • Overview of what systems thinking is and its core principles, such as system of systems, interconnectivity between our built environment, social systems and economic systems. • Explain why system thinking is crucial for the AEC industry, particularly in addressing sustainability challenges and building a smart city.
2. Case Studies and Examples Applications of Systems Thinking in AEC • Case studies of successful AEC projects that have implemented systems thinking principles such as Digital Built Britain. • Discuss the challenges faced, solutions implemented, and the outcomes achieved. • Share lessons learned from these case studies and how they can be applied to future projects in Hong Kong. • Highlight its role in promoting sustainable practices, such as energy efficiency, waste reduction, and green building designs. • Explore how systems thinking can drive innovation and the adoption of new technologies, such as AI, robotics, and digital twins, to improve construction processes and outcomes.
3. Sharing of specific model, tools and techniques Application of tools: • V-Diagram • Participatory system mapping • Cause Loop Diagram
4. Interactive Sessions Interactive workshops and exercises • Apply systems thinking principles to organisation or project. • Discuss the interconnectivity between the participant's organisation.