



A1STM001W

(Token- required)

STEM Workshop (Level I)

Future in Green – Green Building Technologies x Zero Carbon Building

Electrical and Mechanical Services Department
Construction Innovation and Technology Application Centre



Application Deadline
21 Feb 2023 12:00 noon

Intended Learning Outcomes

Upon completion of the programme, participants should be able to:

1. Understand the design concepts of green buildings and various applications of green technologies.
2. Define the usage and features of low carbon / zero carbon in building designs.
3. Appreciate the designs of green buildings and the novel environmental-friendly products



◆ Introduction

Green building technologies is the theme of the workshop. Students could gain the inspiration of applying technology in construction industry for a sustainable future.

Education path at Electrical and Mechanical Services Department (EMSD) aims to promote the green building technologies. This path consists of 3 exhibitions, including EMSD Headquarters, rooftop viewing gallery and the Gallery. Students will survey numerous exhibits of green technology, such as the largest photovoltaic panels array in Hong Kong, wind turbines and the environmental protection design of the building etc.

iHub is a knowledge hub showcasing the latest local and overseas construction technologies with a view to promoting the implementation and application construction innovation. Students will visit 4 major exhibitions: Construction Innovation and Technology Centre (CITAC), CIC-Zero Carbon Park, MiC Resources Centre and CIC-BIM Space. Throughout the tour, students could recognise the applications of Artificial Intelligence (AI) and Virtual Reality (VR) technology in construction industry.

◆ Schedule

Session	Date	Time	Venue
1	13 April 2023	9:50 a.m. – 12:00 noon	Construction Innovation and Technology Application Centre, 8 Sheung Yuet Road, Kowloon Bay (Location)
2		2:00 p.m. – 3:30 p.m.	Electrical and Mechanical Services Department Headquarters, 3 Kai Shing Street, Kowloon Bay (Location)

◆ Target Participants

- S1 – S6 HKAGE student members in 2022/23 school year only

- Class size: 25

**First-come-first-served*

◆ Pre-requisite

No special prerequisites are needed

◆ Medium of Instruction

Cantonese with Chinese handouts

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended ALL sessions