



A4ENG003C

(Token- required)

[**Gifted Programme**]

Engineering Course (Level IV)

**How Railway Shapes Our City –
Delving into the Hong Kong’s Railway
Industry (Phase III : Railway systems
and modern railway technologies)**

Instructors from MTR Academy



Application Deadline
12 Jun 2024 12:00 noon

Result Release
17 Jun 2024

Intended Learning Outcomes

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

1. Understand the evolution of railway systems and their technological development
2. Recognise various components of railway systems and their functions
3. Describe the concepts of railway maintenance and familiarise with railway maintenance facilities and practices
4. Gain practical experience in safety measures of system maintenance
5. Understand the train depot operations
6. Analyse emerging technologies in the railway industry and their applications

◆ Gifted Programme Introduction

This phase aims to provide participants with a comprehensive understanding of the various components and technologies involved in modern railway systems. Participants will have the opportunity to explore the fascinating interplay between technologies and railway systems, uncovering the secrets behind their efficient and reliable functioning. During this phase, participants can take part in a wide variety of interactive sessions, workshops, industry expert sharing and site visits designed to provide them with first-hand experience and understanding of the railway systems and their underlying technologies.

◆ Schedule

Session	Date	Time	Venue
1	6 Jul 2024 (Sat)	9:00am – 12:00 noon	HKAGE
2	13 Jul 2024 (Sat)	9:00am – 12:00 noon	
3	20 Jul 2024 (Sat)	9:00am – 12:00 noon	
4	27 Jul 2024 (Sat)	9:00am – 12:00 noon	
5	3 Aug 2024 (Sat)	9:00am – 12:00 noon	
6		2:30pm – 5:30pm	Site Visit
7	10 Aug 2024 (Sat)	9:00am – 12:00 noon	HKAGE
8	17 Aug 2024 (Sat)	9:00am – 12:00 noon	
9		1:30pm – 4:30pm	Site Visit
10	24 Aug 2024 (Sat)	9:00am – 12:00 noon	HKAGE

◆ Target Participants

- S2 to S6 HKAGE student members in 2023/24 school year
- Class size: 30

◆ Medium of Instruction

Cantonese with English Handouts

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended at least 7 sessions; and
- completed all the assignments with satisfactory performance

◆ Screening

- Student from the Phase 2 are not required to answer the screening questions. Admission will be based on the performance in the assessment of phase 2 (A4ENG003C)
- For students who are **NEW** to this programme, please answer the screening question in the online application form.

*The screening question is designed to help the applicant understand the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the knowledge of railway engineering in the screening question can be enrolled in the programme