



香港資優教育學苑

The Hong Kong Academy for Gifted Education

香港特別行政區政府教育局資助
Subvented by the Education Bureau, the Government of the HKSAR



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[**Gifted Programme**]

Engineering Programme (Level II)

Introduction to Railway System - From Depot Visit to Design Workshop

Instructors from MTR Academy



Application Deadline
22 Jul 2026 12:00 noon

Result Release
24 Jul 2026

Intended Learning Outcomes

Upon completion of the gifted programme, gifted students should be able to:

- gain a basic understanding of railway systems ;
- develop critical thinking by exploring how railway systems function;
- stimulate creativity by designing personalised locomotive;
- cultivate interest in the railway industry and its real-world applications.

◆ Gifted Programme Introduction

This programme is designed to inspire and ignite participants' interest in the railway industry. The programme explores railway systems and infrastructure, including a visit to a train depot for firsthand observation of depot operations. Through interactive activities, student members will have a chance to gain hands-on experience in locomotive exterior design using engineering drawing and laser cutting techniques and collaborate on building their own railway system model.

◆ Schedule

Session	Date	Content	Time	Venue
1	17 Aug 2026 (Mon)	Railway Systems and Infrastructure	9:00a.m. – 12:00noon	MTR Academy Hung Hom Centre
2		Visit to MTR Depot	1:30pm – 4:30pm	MTR Kowloon Bay Depot
3	18 Aug 2026 (Tue)	Locomotive Exterior Design Workshop	9:00a.m. – 12:00noon	Hong Kong Productivity Council
4		Railway Modelling Workshop	1:30pm – 4:30pm	MTR Academy Hung Hom Centre

◆ Suitable for

- S1 – S6 HKAGE student members in 2025/26 school year.
- Class size: 20
- Student members would be selected randomly by the computer system. The decision of HKAGE on the result of the selection should be final.

◆ Remark

No special prerequisites are needed

◆ Medium of Instruction

Cantonese with English handouts

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended ALL sessions; AND
- completed all the assignments with satisfactory performance