

Railway Series: High-Speed Rail Development and Operations (Visit)

Course Code: SC 26-006

14 March 2026 (Saturday), 9:00 am – 12:00 pm ; 1:00 pm – 4:00 pm

Introduction

The 26km High-Speed Rail (Hong Kong Section) runs from West Kowloon, connecting Hong Kong with the Mainland's national high-speed rail network. This course is designed to provide students with an introduction to high-speed railway system and its development in different cities. This course also provides basic knowledge of designing, planning and operating High Speed Rail.

Objectives and Learning Outcomes

This course covers an introduction to different types of high-speed trains including Vibrant Express (動感號) and operations of high-speed rail depot plant facilities. A visit to the depot plant facilities is included in this course.

Upon completion of this course, participants will be able to:

- Understand the design and planning of High-Speed Railway System;
- Explain the fundamental elements and characteristics of High-Speed Rail systems;
- Familiarize the design and operations of MTR Vibrant Express; and
- Gain insight into the depot plant facilities and their operations for high-speed train's Level 1 & Level 2 maintenance at the depot.

Who Should Attend

Anyone who is interested in high-speed train (HST) and its depot operations

Pre-requisites

Senior Secondary or above*

Language

Cantonese (with presentation slides in English)

Venue

Class: MTR HSR Shek Kong Stabling Sidings (SSS) / Depot

Lunch: Depot Canteen
(At their own cost)

Mode of Learning

Classroom lecture and site visit

Course Structure

Main topics are :

i. Classroom lecture

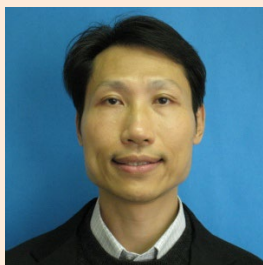
- Definition of high-speed rail system & operating high-speed rail requirements
- High speed rail today and its network & development of high-speed rail systems around the world
- Introduction of Mainland high-speed train at running speed up to 400km/h
- Overview of Vibrant Express-HST systems and key equipment
- Introduction of depot plant facilities and their operations

ii. Site visit

Vibrant Express-HST and Depot plant facilities at SSS



Speaker



Mr Raymond Leung
M.Sc. (Eng.), B.Sc.

Raymond Leung obtained his Master of Science in Engineering from the University of Hong Kong, and he is an experienced rolling stock (RS) engineer who is proficient in both RS and depot plant equipment that support RS maintenance. He has extensive experience at driving contractors to deliver and supervise them with proper guidance and he has proven records in delivering excellent engineering solutions. He contributed to the successful delivery of high-speed train (Vibrant Express) and associated depot plant facilities project at MTR. He has gained an MTR Grand Award - Top Award on the "High Speed Rail Successful Opening" in 2019.

Raymond is currently working as a Senior RS Design Engineer and is responsible for Siu Ho Wan Depot Redevelopment (SHO) project, and Tung Chung Line Extension project (TUE) including on-track engineering vehicles at MTR. Prior to his current appointment, he was engaged in rolling stock engineering design in various Metro passenger trains with over 20-year related experience.

Certificate of Attendance

Each participant will receive a certificate of attendance showing 6 hours upon successful completion of this course.

Programme Fee	Discount Scheme
\$650	30% off for – full-time staff of MTR and its subsidiary companies^ – full-time students (Senior Secondary or above) ^Latest details, please refer to our webpage

Application Methods

Online

Applicants can enrol and online payment by credit card at <https://www.mtracademy.com>

Enquiry in Person

Address: MTR Hung Hom Building, 1/F., 8 Cheong Wan Road, Hung Hom, Kowloon

Opening hours: Monday – Friday: 9am - 8pm; Saturday: 9am – 12:30pm

Closed on Sundays and Public Holidays

Closing Date for Registration

Please note that due to limitations of venue capacity and relevant logistics, all registrations must be made at least 2 working days prior to the delivery date of individual modules. No walk-in registration will be entertained.

*MTR Academy reserves the right to turn away successfully enrolled individuals who do not meet prerequisite.