

Railway Operations Commander For A Day

一日鐵路指揮官

Exclusive Classes
for Schools



Course Objectives

This programme introduces students to the exciting world of railway operations through immersive, hands-on activities. By experiencing train driving simulation and working with realistic railway models, students will gain insights into how railways operate and discover potential pathways for future studies and careers in the transport industry.

Course Details



Target Audience

Secondary 1 to 3 in a group OR
Secondary 4 to 6 in a group



Class Size

15 students per class
(must be accompanied by at least
one school representative)



Duration

6 hours



Medium of Instruction

Cantonese (supplemented with
Chinese presentation slides)



Venue

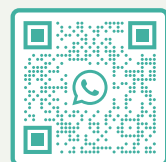
MTR Academy

Learning Outcomes

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

- Understand the basic principles and safety requirements of railway operations
- Experience and practise fundamental train driving skills using an industry-standard simulator
- Collaborate effectively in teams to assemble and operate a model railway network
- Recognise the importance of communication, coordination, and operational procedures in delivering safe and efficient railway services
- Illustrate crowd management principles

Application Method



This course is exclusively open for secondary school group bookings.

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Course Timetable

Time & Venue

Topic & Activity Details

🕒 09:00 – 10:40
(100 mins)

📍 Classroom

Part 1

Overview of Train Operations & Communications

- Overview of train operations
- Introduction to different train driving modes
- Communication between Train Captain and Traffic Controller during daily operations

Exercise 1: Role-play using international call signs and walkie-talkies to simulate communication between Train Captain and Traffic Controller

🕒 10:40 – 10:50
(10 mins)

Break

🕒 10:50 – 12:00
(70 mins)

📍 Integrated Training Facility Room (ITF)

Part 2

Driving Simulator Hands-on Experience

Exercise 2: Train cab simulation and practices •



🕒 12:00 – 13:30
(90 mins)

Lunch Break

🕒 13:30 – 15:00
(90 mins)

📍 Integrated Training Facility Room (ITF)

Part 3

Track Layout & Traffic Safety

- Introduction to track layout and traffic control

Exercise 3: Building a model railway using a realistic track layout to understand the functional considerations and related terminologies •

- Introduction to railway traffic safety rules



🕒 15:00 – 15:10
(10 mins)

Break

🕒 15:10 – 16:30
(80 mins)

📍 Classroom

Part 4

Crowd Management & Operational Safety

- Overview of crowd management

Exercise 4: Train capacity calculation

- Case study on train service operations applying crowd management concepts

Exercise 5: Application of railway traffic safety rules