

CPD Series: Permanent Way - System Analysis

Course Code: SC 26-019

30 June - 25 August 2026 (Tuesdays), 7:00pm - 10:00pm

Objectives and Learning Outcomes

This course offers an overview of Permanent Way (Track) systems, equipping students with the fundamental knowledge and analytical skills required for permanent way system analysis. Participants will gain insights into the general functional requirements, key components, and asset lifecycle of permanent way infrastructure.

On completion of the course, students are expected to be able to:

1. understand the general functional requirements, components and asset lifecycle of Permanent Way.
2. evaluate the Permanent Way in terms of the performances on safety, service and demand.
3. understand different interface requirements of Permanent Way.

Who Should Attend

Those who are interested in Permanent Way

Pre-requisites

Participants with basic knowledge and practical experience in Permanent Way*

Language

Cantonese with English terminologies (with presentation slides in English)

Venue

MTR Academy - Hung Hom Centre, Kowloon, Hong Kong

Mode of Learning

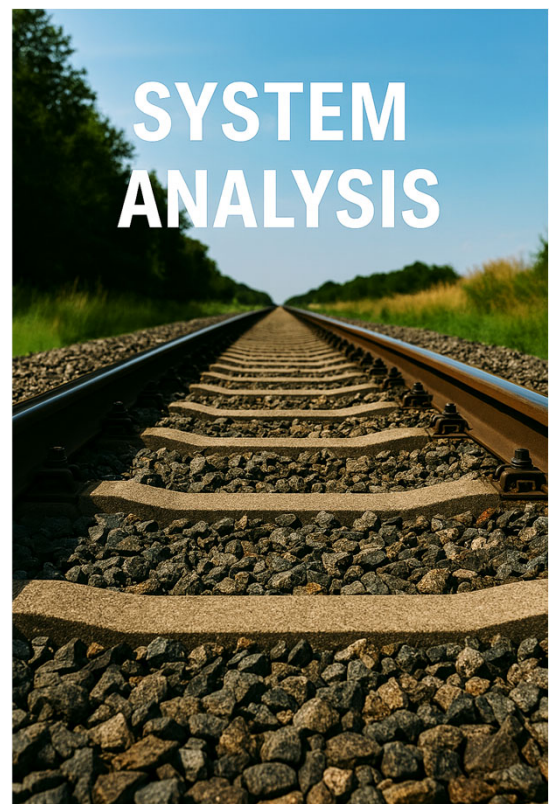
Classroom lecture and discussion

Course Structure

This course consists of 9 lectures.

It covers the following topics:

1. Fundamentals of Permanent Way
2. Service Performance Requirements and Demand Analysis
3. Safety Requirements
4. Interface Design Requirements
5. Asset Lifecycle



Course Details

Topic No.	Topics / Activities	Learning Contents
1	Fundamentals of Permanent Way	<ul style="list-style-type: none"> • Functional requirements of Permanent Way • Permanent Way System overview
2	Service Performance Requirements and Demand Analysis of Permanent Way	<ul style="list-style-type: none"> • Key service performance considerations of Permanent Way • Derivation of Permanent Way system level requirements from application demand
3	Safety Requirements of Permanent Way	<ul style="list-style-type: none"> • Common safety hazards of Permanent Way • Principles for safety in maintenance and operation of Permanent Way
4	Interface Requirements of Permanent Way	<ul style="list-style-type: none"> • Considerations for Civil Infrastructure interfaces • Considerations for Electrical interfaces • Considerations for Rolling Stock interfaces • Considerations for Signalling interfaces
5	Asset Lifecycle of Permanent Way	<ul style="list-style-type: none"> • Typical lifecycle and asset life of Permanent Way

Schedule

Lesson	Time & Date	Mode of Learning
1	30 Jun 2026 (Tuesday) 7:00pm – 10:00pm	Lecture
2	07 July 2026 (Tuesday) 7:00pm – 10:00pm	Lecture
3	14 July 2026 (Tuesday) 7:00pm – 10:00pm	Lecture
4	21 July 2026 (Tuesday) 7:00pm – 10:00pm	Lecture
5	28 July 2026 (Tuesday) 7:00pm – 10:00pm	Lecture
6	04 August 2026 (Tuesday) 7:00pm – 10:00pm	Lecture
7	11 August 2026 ((Tuesday) 7:00pm – 10:00pm	Lecture
8	18 August 2026 (Tuesday) 7:00pm – 10:00pm	Lecture
9	25 August 2026 (Tuesday) 7:00pm – 10:00pm	Lecture

Speaker



Dr. MT Wong

Dr. Wong Man Tat is the former Manager (Special Duty) at MTR Corporation Ltd. responsible for training the new Permanent Way (Pway) Managers and Engineers in PWay design, construction and maintenance technology. Dr. Wong has over 40 years of experience in PWay design, maintenance and asset management. He has published some articles in trade and professional journals. His research area is focused on the damage detection of the railway ballast.

Certificate of Attendance

Each participant will receive a certificate of attendance showing upon successful completion of this programme if he/she fulfills the 70% attendance requirement.

Programme Fee	Early Bird Fee	Discount Scheme
\$4,100	\$3,690 (Paid registration on or before 15 June 2026) <i>^Rounded up fee</i>	15% off for <ul style="list-style-type: none">– members of supporting professional bodies[^]– 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.