



# 鐵路電訊系統培訓課程

## TRAINING COURSE FOR RAILWAY TELECOMMUNICATION SYSTEM

### Introduction

In the development of the rail traffic and transportation system, it must have the reliability in the telecommunication systems. This is crucial in the railway management and operations environment.

We would like to introduce the principle and technology in those systems. The aims are to provide a reliable medium between key railway infrastructure and also to facilitate safe, effective and efficient railway operations during normal and abnormal operations.

In order to let our attendees understand the updated information related to those systems in railway and obtain more knowledge in principle and new technology, our lecturer will deliver more practical cases presented in this course.

**Date : 3 April 2020 & 10 April 2021**

**Time : 10:00-13:00 , 14:00-18:00 (14 hours)**

#### Tuition Fee :

Member MOP 1,000/pax

Non-member MOP 1,300/pax

#### Course Content :

- Operational requirement of railway telecommunication system
- Introduction for telecommunication system System of radio, telephone, CCTV, master clock, public address, passenger information display, commercial communication
- Railway control system
- Case study
- Lesson learnt from catastrophic incident

**Location :** Online, Software: Zoom

**Enrollment :** Online



<https://forms.gle/vZ4cG5QkQgwsBNX6>

**Target :** Engineer, Consultant & Managerial Personnel

#### Inquiry :

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### Ir. C. S. Chang



Ir CS Chang obtained his BSc degree in Electrical Engineering from the University of Hong Kong and an MBA degree from Chinese University of Hong Kong. He has worked in France for the development of the software which was used in the MTRC Island Line Train Control System. Since then, he has been working as a project manager on various multi-disciplinary communication control, and signaling projects for both the operational railway and new railway lines for MTR Corporation Limited. CS is now the Chairman and Director of Key Direction Limited, the Executive Director of PYPUN-KD & Associates Limited. CS is the part time lecturer for M.sc. course on Railway Engineering in the Chinese University of Hong Kong.



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 The Macao Institution of Electrical and Mechanical Engineers

The course was approved by CAEU for recognized activity of continuous professional development (04/FC/2020)