

Railway-Intro 11: Power Distribution System

(Course Code: SC 19-001)

10 January 2019 (Thursday), 7:00 p.m. to 10:00 p.m.

Introduction

This course highlights the major equipment and different configurations of power supply and overhead line systems installed in modern railway line. The integrity of power supply by automatic changeover system and power system protection system will also be introduced.

Programme Objectives

1. To introduce the different configurations of railway power supply and overhead line system
2. To discuss the major equipment of railway power supply and overhead line system
3. To highlight the security of power supply distribution system such as automatic changeover system of High Voltage / Low Voltage side
4. To explain the protection schemes and basic principles of power system protection both in AC and DC railway power supply distribution systems

Learning Outcomes

Upon completion of this course, participants are able to:

- appreciate the general configuration and major equipment adopted in railway power supply and overhead line systems
- understand the security and automatic changeover principles of railway power supply system
- know the principles of power system protection and power protection scheme

Who Should Attend

Operations and engineering practitioners in transportation and utility industries, and large-scale engineering firms

Pre-requisites

- Attendees are better to have basic engineering knowledge
- Senior Secondary, Form 4 or above

Language

Cantonese (with presentation slides in Chinese)

Venue

MTR Academy - Hung Hom Centre, Kowloon, Hong Kong

Mode of Learning

Class lecturing

Programme Structure

The course includes the following topics:

- Overview of railway power supply and overhead line system
- Major equipment of high/low voltage power supply and overhead line system
- Security and automatic changeover system of railway power supply & distribution system and related power protection scheme

Speaker



KWONG Yau Kuen, Kenny

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MIET

Kenny Kwong is currently an Assistant Training Manager in the Operations Training Department of MTR Corporation Ltd. (MTRCL) responsible for handling training matters related to railway power distribution system, overhead lines system, electricity wiring regulations and low voltage power system and BS equipment.

He is an electrical engineer with over 35 years of experience in technical training, project management, design, maintenance, installation and emergency recovery/trouble shooting in railway Power Supply System and Building Services (BS)/E&M equipment.

He was also a part-time lecturer of the Real Estate and Facility Management faculty of the Morrison Hill VTC for teaching Certificate and Higher Diploma level in Electrical Engineering/BS Engineering for over 10 years.

Certificate of Attendance

Each participant will receive a certificate of attendance (indicating 3 hours of participation) upon successful completion of this programme

Programme Fee :	Full Fee	Discount Scheme
Price for full course	\$250	30% off for – full time staff of MTRCL and its subsidiary companies (Ngong Ping 360, Octopus and TraxComm) – full-time students (senior secondary, Form 4 or above)

Application Methods

Online

Applicants can enrol and pay online <https://www.mtracademy.com>

Enquiry in Person

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

Opening hours: Mon, Wed and Thu: 1:30pm – 2:30pm; 3:30pm – 7:30pm; Saturday: 9:30am – 12:30pm

Closed on Sunday and Public Holiday

Payment methods

By credit card

Closing Date for Registration

Please note that due to limitations of venue capacity and relevant logistics, all registrations must be made at least 3 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.