



Introduction to Railway Systems

Workshop Details
 Date: 15 November 2018
 Venue: Singapore Institute of Technology (SIT)
 SIT@Dover, 10 Dover Drive, Singapore 138683
 SR2M, Academic Plaza

Course Fees
 Individual Booking: SGD 400/pax *(excludes GST)*
 Group Booking (5 or more pax): SGD360/pax *(excludes GST)*

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 Contact charlotte.seah@iesnet.org.sg for further enquiries.

This programme aims to help Engineers gain an awareness of Railway Systems, Electrical and Mechanical (E&M) concepts and their applications to the Mass Rapid Transit (MRT) system. It is designed to cover a range of topics like permanent way, rolling stock, signalling & platform screen door, communication & control, power supply, tunnel ventilation, fire life safety and systems assurance. The intent is to help participants gain a broader understanding of railway’s business, to give an overview and some basic engineering knowledge on the different railway systems and on how they function together to provide an efficient and reliable MRT system. In this workshop, railway engineering professionals and specialists from the Land Transport Authority (LTA) will present and share their knowledge of railway systems based on the content of the Railway.

At the end of the programme, participants will gain a basic understanding of the various railway sub-systems in a transit system and understand the interfaces with other sub-systems.

<p><u>Learning Objectives</u></p> <ul style="list-style-type: none"> a) Railway Systems Engineering b) Railway E&M systems and services c) Reliability Availability Maintainability and Safety (RAMS) 	<p><u>Target Audience</u></p> <ul style="list-style-type: none"> a) E&M engineers b) Rail transport engineers c) Railway operators d) Engineering students at Institutions of Higher Learning (IHLs)
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Programme Outline

Time	Topic	Speaker
9:00 to 9:45	Overview of Rapid Transit Systems	Dr Sam Chan, Group Director, Rail/Road Systems Engineering, LTA
9:45 to 10:30	Permanent Way	Dr Pang Hock Lye John, Professor, Nanyang Technological University Mr Ong Phui Kai, Asst Chief Specialist, Permanent Way Engineering, LTA
10:30 to 11:00	Morning break	
11:00 to 11:45	Rolling Stock	Mr Low Chen Wah, Deputy Chief Specialist, Rolling Stock / Depot Engineering, LTA
11:45 to 12:30	Signalling & Platform Screen Door	Mr Robert Cooke, Deputy Chief Specialist, Signalling, LTA
12:30 to 13:30	Lunch	
13:30 to 14:00	Communication	Mr Tay Lim Hock, Deputy Chief Specialist, Communications, LTA
14:00 to 14:30	Control	Mr Tan Yong Peow, Deputy Chief Specialist, Controls, LTA
14:30 to 15:15	Power Supply	Mr Vengadasalam / Mr Chia Song Khoon, Assistant Chief Specialist, Power Supply, LTA
15:15 to 15:45	Afternoon Tea	
15:45 to 16:15	Tunnel Ventilation System	Er Lim Lean Wan, Deputy Chief Specialist, Tunnel Ventilation & Fire Engineering, LTA
16:15 to 16:45	Fire Life Safety	Dr Eric Cheong, Assistant Chief Specialist, Tunnel Ventilation & Fire Engineering, LTA
16:45 to 17:30	Systems Assurance	Mr Ng Hon Wai, Assistant Chief Specialist, Systems Assurance, LTA