

Prof. Lee Kang Kuen

Professor of Transportation Practice, Hong Kong Polytechnic University

Electrification and Automation Engineering Research Centre (Hong Kong Branch)

Technical Mentor and Member of Technical Advisory Panel, SMRT, Singapore

Prof. Lee is one of Asia Pacific's most prolific experts in the railway industry. Throughout his 53 years in the field, his responsibilities have spanned an impressive range of operations, including rolling stock and infrastructure maintenance, new lines, major asset upgrade and replacement as well as operations and business development. His most recent tenure was with the Sydney Metro, helming the Sydney Metro Northwest and Sydney Metro City & Southwest projects.

He is also an invaluable asset in academia, leading the Hong Kong Polytechnic University research team that pioneered the application of Fiber Bragg Grating sensors for the continuous monitoring of mission critical railway components. His most recent R&D work involves smart railway linear infrastructure and smart



Senior Manager - Rolling Stock Performance, European Business, MTR

Mr. Quentin Leung is the senior industry specialist that helmed and guided the highly respected MTR Asset Management System through its implementation and development. He was also involved in the certification of the MTR Asset Management System from PAS55 to ISO 55001.

He has held senior positions in train design and maintenance with MTR Hong Kong and in overseas railway projects and franchises.



Mr. Nick Mildmay-White Delivery Manager (Asia), AMCL

A seasoned authority in the field of asset management, Mr. Mildmay-White is also an IAM-

endorsed assessor and trainer specialising in asset management, assessing and implementing ISO 55000 systems and GFMAM 39 subject best practices. He is sought after across the regulated industries in Hong Kong, Malaysia, Singapore, Indonesia and the Philippines, delivering Whole Life Cost development, risk and criticality profiling, asset information and asset management system specification.

As a mechanical engineer, Mr. Mildmay-White developed key consultancy skills as an internal management consultant in the UK Rail Industry before joining AMCL. He currently heads up AMCL's asset management office in the Asia region.



Mr. Raymond Leung

Group Workshop Manager, MTR

Mr. Raymond Leung is a respected asset management authority with more than 33 years of tenure in the passenger transport sector,

predominantly with MTR. His expertise in the field covers fleet maintenance of passenger trains as a depot manager, as well as asset development and maintenance for the rolling stock maintenance department, where he guided maintenance planning, documentation, budgeting and manpower development.

He is currently the group workshop manager responsible for the maintenance of half of MTR's passenger train fleet, overseeing workshop overhaul maintenance, locomotives and engineering

Intake Schedule and Programme Fees

For details, please refer to the Registration Form.

Programme Enquiry

Please contact Ms. Ng at slng@mtr.com.hk or call +852 2520 3453.





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Executive & Professional Programmes

Executive Certificate in **Asset**



Management

(ECAM)

Join international industry experts for a comprehensive look at asset management principles specific to large-scale infrastructure systems, with applications drawn from MTR's considerable expertise in railway infrastructure management.

The modular syllabus opens with foundational concepts in asset management, followed by general asset management systems, including best practices for their promotion, development, implementation and maintenance. Case studies from MTR will illustrate these principles in practice, particularly as they pertain to a railway system, highlighting their benefits for an operator with long-term goals.

Obiectives

- · Deepen your understanding of asset management, including its key principles, framework, processes and good practices;
- Recognise the importance of multi-level connections between a corporate operator and its asset management system, and how to develop those connections to maximise their benefits;
- Learn from the operators of a highly successful railway system; and
- · Formulate an asset management system specific to your business goals and operational requirements.

Who should attend

Executives, managers and engineers employed by infrastructure asset owners, custodians and maintainers.

Language

English

Certification

Certification from the Institute of Asset Management (IAM), an internationally recognised professional body, will be issued to participants who complete the first full day of the programme and pass the knowledge test.

Hung Hom Centre Kowloon Bay Depot Centre Tai Wai Depot Centre Pat Heung Depot Centre MTR Headquarters Building Citylink Centre Manhattan Place Centre

Day

Asset Management Fundamentals (3 hours)
Speaker: Mr. Nick Mildmay-White

Recognise the importance of asset management, as well as the roles and responsibilities of different stakeholders and top management in the asset management process. ISO 55000 will also be introduced to align these principles with corporate strategy.

Good Practices of Asset Management

(3 hours)

Speaker: Mr. Nick Mildmay-White

Examine the vital role of risk management in the whole life decision-making process, and how to adopt good practices such as monitoring, assurance as well as asset information in the asset management journey.

Essences of Asset Management: Strategy, Planning and Decision Making (3 hours)

Speaker: Mr. Nick Mildmay-White

Understand how corporate objectives and demand drive asset management in a corporate setting; how to develop asset management strategies, policies and planning; and how to use the Whole Life Cost (WLC) model to enhance judgement during the decision-making process.

Essences of Asset Management: Some Commonly Used Techniques (3 hours)

Speaker: Mr. Nick Mildmay-White

Learn about various asset management techniques and tools used during the asset life cycle, including the Reliability, Availability, Maintainability and Safety (RAMS) specification and maintenance optimisation tools; and how to manage resources, spares, renewals and disposals.

Knowledge Test (IAM)

Tea break

Graduation Ceremony Day 3

Connecting Asset Management with Corporate Strategic Goals (3 hours)
Speaker: Prof. Lee Kang Kuen

Recognise how corporate strategic goals and asset management relate, referencing cases to illustrate how strategic maintenance management can contribute to the success of railway operations. Modern asset management trends in the railway industry will also be introduced.

Planning for Asset Life Assurance and its Challenges

(3 hours)

Speaker: Mr. Quentin Leung

Understand the needs and challenges of asset assurance throughout the life cycle of the asset, as well as the processes in asset condition assessment and decision making, with illustrations through case studies where appropriate.

Case Sharing: Asset Management System of MTR

(3 hours)

Speaker: Mr. Raymond Leung

Discover MTR's methodology for establishing a robust asset management system, as well as tools for maintaining and managing its extensive assets.

Assessment: Group Presentation (1.25 hours) Facilitator: Mr. Raymond Leung / Mr. Quentin Leung

Participants will be invited to present what they learnt from one of the sessions and how the content enables them to facilitate the implementation of asset management.

Technical Visit to Depot and Workshop: Exploring the Asset Management Journey of MTR (2 hours)

Speaker: Mr. Kyle Lau

Witness how asset management is applied and implemented in passenger train maintenance facilities.

Day 5

Application: Tools for Enhancing Reliability
Performance (3 hours)

Speaker: Mr. Raymond Leung

Observe the asset management tools used by MTR to manage various parts of the asset management life cycle.

Lunch Networking with Senior Executive and Practitioners

Graduation Ceremony

MTR Depot and Workshop

Site visit

Group Presentation

Working in groups, you will prepare a presentation evaluating a hypothetical asset management plan, covering successes and challenges in its development.

Connect with Senior MTR Executives

Meet senior MTR executives and tap into their vast experience through a panel discussion on railway asset management, and develop your professional network through other interactive sessions.

O Lunch time