Practical Design and Construction of Railway Structures CPD Course

Broad Course Content

Lecture 1 Basic Design Concept

- An overview of the design concepts of Railway Stations, Viaducts and Tunnels.
- Critical analysis of current Design Criteria, Standards, Methods of Analysis.

Lecture 2 Practical Design Examples

- Practical examples of designing railway Stations and Viaducts.
- Specific construction methods employed in Railway Structures, e.g. Top-down Basement of a Railway Station, Diaphragm Walling for a Cut-and-cover Tunnel, etc.

Brief Introduction to Speaker

Ir. Nick Kwok, B.Sc.(Eng), M.Phil (HKU), MIStructE, MHKIE

The speaker has extensive practical experience in the design and construction of railway structures in Hong Kong, including various railway stations, viaducts and tunnels. He has been involved in various alternative designs of KCRC and MTRC structures, including the recent KCRC West Rail Nam Cheong Station, the award-winning Tuen Mun and Yuen Long viaducts, East Rail Lok Ma Chau Terminus, MTRC TST Station modifications, TKO Station and the Singapore MRT Circle Line Stations etc. He also has extensive research experience in analysis and design of shell-type structures.

Designed For

Engineers and graduate engineers (building, civil, structural and geotechnical disciplines) who are interested in the planning, structural design and analysis, and construction of railway structures.

Time & Duration

3 hours per Lecture, 2 Lectures.

Language Of Delivery

Cantonese supplemented with English Terminologies.