London TDM

Civil and Construction Engineering Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 17 May 2026 To 21 May 2026

Course Place: Royale Chullan Hotel

Course Fees: 6,000 USD

Introduction

This 5-day professional course on Drainage and Sewerage System Design is tailored for engineers and urban planners aiming to enhance their expertise in sustainable drainage solutions and efficient sewerage systems. Participants will gain insights into modern design techniques, regulatory compliance, and the latest technological advancements in drainage and sewerage systems.

Objectives

- Understand the fundamentals of drainage and sewerage systems design.
- Learn to apply sustainable and innovative design techniques.
- Develop skills to incorporate regulatory standards in design solutions.
- Gain competence in using specialized software for drainage design.
- Master the integration of drainage systems in urban planning.

Course Outlines

Day 1: Fundamentals of Drainage and Sewerage Systems

- Introduction to drainage and sewerage systems.
- The importance and impact of effective drainage solutions.
- Basic principles and terminologies.
- Overview of system components and materials.
- Regulatory standards and guidelines.

Day 2: Design Methodologies and Planning

- Design principles for efficient sewerage systems.
- Hydraulic considerations and calculations.
- Topographical analysis and site assessment.
- Software tools for drainage design.
- Integrating systems into existing infrastructure.

Day 3: Sustainable Design Solutions

- Principles of sustainable drainage systems (SuDS).
- Innovative materials and technologies.
- Rainwater harvesting techniques.
- Case studies on sustainable designs.
- Impact assessment and environmental considerations.

Day 4: Construction and Maintenance

- Construction best practices and challenges.
- Material selection and resource management.
- Maintenance planning and operations.
- Troubleshooting common problems.
- Cost estimation and budget management.

Day 5: Case Studies and Project Development

- Review of successful drainage projects worldwide.
- Group project: Designing a model drainage system.
- Technical report writing and presentation skills.
- Feedback and evaluation of the group project.
- Course wrap-up and certification.