**London TDM**

# Civil and Construction Engineering Training Courses

**Course Venue:** Malaysia - Kuala Lumpur

**Course Date:** From 23 August 2026 To 27 August 2026

**Course Place:** Royale Chullan Hotel

**Course Fees:** 6,000 USD

## Introduction

This intensive 5-day professional course, "Geotechnical Investigation and Reporting," is designed for engineers and geoscience professionals who wish to deepen their understanding of geotechnical investigation processes, methodologies, and reporting techniques. Participants will engage in a blend of theoretical knowledge and practical applications, ensuring they are well-equipped to handle real-world geotechnical challenges effectively.

## Objectives

- Understand the principles and practices of geotechnical investigations.
- Learn how to plan and execute field investigations effectively.
- Gain proficiency in analyzing geotechnical data and interpreting results.
- Develop skills to prepare comprehensive and professional geotechnical reports.
- Enhance decision-making ability related to geotechnical projects and challenges.

## Course Outlines

### Day 1: Introduction to Geotechnical Investigation

- Overview of geotechnical engineering principles
- Importance and objectives of geotechnical investigations
- Types of geotechnical investigations
- Regulatory and safety considerations
- Introduction to geotechnical exploration processes

### Day 2: Planning and Conducting Field Investigations

- Site reconnaissance and preliminary assessments
- Developing a geotechnical investigation plan
- Tools and equipment for field investigations
- Sampling techniques and sample handling
- Logging and documenting field data

### Day 3: Laboratory Testing and Data Analysis

- Types of laboratory tests for soil and rock analysis
- Interpreting test results
- Data analysis and integration
- Use of software tools for data analysis
- Case studies of geotechnical data analysis

### Day 4: Geotechnical Reporting

- Components of a geotechnical report
- Writing clear and concise reports
- Visualizing data effectively in reports
- Common pitfalls in geotechnical reporting
- Reviewing and finalizing reports

**Day 5: Applications and Advanced Topics**

- Integration with structural and civil engineering projects
- Advanced geotechnical investigation techniques
- Innovations and trends in geotechnical engineering
- Risk management and decision-making in geotechnical projects
- Open forum: Q&A and case study discussions