



London TDM

# Civil and Construction Engineering Training Courses

**Course Venue:** Malaysia - Kuala Lumpur

**Course Date:** From 26 April 2026 To 30 April 2026

**Course Place:** Royale Chulan Hotel

**Course Fees:** 6,000 USD

## Introduction

The "Smart Cities and Urban Development" course is designed for professionals seeking to understand the intersection between technology and urban planning. Over five intensive days, participants will explore the latest trends, technologies, and strategies that are shaping the cities of the future. By the end of the course, attendees will be well-equipped to contribute to the planning and development of smart, sustainable, and resilient urban environments.

## Objectives

- Understand the concept and components of smart cities.
- Explore the role of technology in urban development.
- Examine case studies of successful smart city projects worldwide.
- Analyze the challenges and barriers in developing smart cities.
- Learn about sustainability and resilience in urban planning.

## Course Outlines

### Day 1: Introduction to Smart Cities

- Definition and components of smart cities.
- Historical evolution and future trends.
- Key stakeholders in smart city development.
- The role of government and policy frameworks.
- Global examples of smart cities.

### Day 2: Technology and Infrastructure

- Role of IoT in smart cities.
- Data analytics and decision-making processes.
- Smart infrastructure: transportation, energy, and water systems.
- Communication networks and broadband connectivity.
- Cybersecurity concerns and solutions.

### Day 3: Urban Planning and Design

- Integrating technology with traditional urban planning.
- Sustainable urban design principles.
- Public spaces and smart design concepts.
- Transport planning in smart cities.
- Case study analysis: urban redesign projects.

### Day 4: Sustainability and Resilience

- The role of green spaces in urban environments.
- Renewable energy integration and smart grids.
- Water management and waste reduction strategies.
- Climate change adaptation and city resilience.
- Metrics and tools to measure sustainability.

## **Day 5: Challenges and Future Directions**

- Identifying and addressing challenges in smart city development.
- Financial models and investment strategies.
- Equity and inclusivity in urban development.
- The future of urban mobility and emerging technologies.
- Building strategic partnerships and collaborations.