



London TDM

# Civil and Construction Engineering Training Courses

**Course Venue:** United Arab Emirates - Dubai

**Course Date:** From 29 March 2026 To 02 April 2026

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

Lean Construction is an innovative management approach that focuses on maximizing value and minimizing waste in the construction process. This 5-day professional course outlines the key principles and practices of Lean Construction, designed to equip construction professionals with the skills and knowledge necessary to implement Lean strategies efficiently and effectively.

## Objectives

- Understand the core principles of Lean Construction.
- Identify and eliminate waste in construction processes.
- Improve collaboration and communication among stakeholders.
- Enhance project delivery and performance using Lean tools.
- Develop continuous improvement strategies for construction projects.

## Course Outlines

### Day 1: Introduction to Lean Construction

- Overview of Lean Principles and History
- The Need for Lean in Construction
- Understanding Value and Waste in Construction
- The Lean Transformation Framework
- Key Lean Construction Concepts and Terminology

### Day 2: Value Stream Mapping in Construction

- Introduction to Value Stream Mapping (VSM)
- Steps to Create a Value Stream Map
- Identifying Waste and Inefficiencies
- Developing a Future State Map
- Implementing Improvements from VSM

### Day 3: Lean Tools and Techniques

- Introduction to Lean Tools: 5S, Kaizen, Poka-yoke
- Implementing 5S for Workplace Organization
- Applying Kaizen for Continuous Improvement
- Error-proofing Construction Processes with Poka-yoke
- Case Studies on Lean Tool Application

### Day 4: Collaborative Planning and Scheduling

- The Importance of Collaborative Planning
- Introduction to the Last Planner System
- Creating Reliable Work Plans
- Enhancing Communication and Coordination
- Monitoring Progress and Adapting Plans

## **Day 5: Sustaining Lean Culture and Continuous Improvement**

- Building a Lean Culture in Construction
- Strategies for Sustaining Lean Improvements
- Leadership Roles in Lean Construction
- Measuring and Evaluating Lean Success
- Developing a Roadmap for Continuous Improvement