



London TDM

Civil and Construction Engineering Training Courses

Course Venue: United Arab Emirates - Dubai

Course Date: From 16 November 2025 To 20 November 2025

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