



London TDM

Civil and Construction Engineering Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 23 November 2025 To 27 November 2025

Course Place: Royale Chullan Hotel

Course Fees: 6,000 USD

Course Brochure - CCE130/Kuala Lumpur/23 November 2025 By London TDM www.londontdm.com - info@londontdm.com

Introduction

This 5-day professional course on "Steel Structures Design and Detailing" is designed to provide participants with an in-depth understanding of the principles and practices involved in the design and detailing of steel structures. Participants will gain hands-on experience in designing steel elements according to industry standards and learn how to apply these skills in real-world projects. This course is ideal for structural engineers, architects, and construction professionals who are looking to enhance their expertise in steel structures.

Objectives

- Understand the fundamental concepts of steel structures design.
- Familiarize with industry standards and codes related to steel design.
- · Learn the techniques of detailed steel member design and connection detailing.
- · Gain practical skills in structural analysis and design software.
- Develop proficiency in reading and interpreting steel detailing drawings.

Course Outlines

Day 1: Fundamentals of Steel Structures

- Introduction to Steel as a Construction Material
- Types and Applications of Steel Structures
- · Basic Concepts of Structural Design
- Overview of Steel Design Codes and Standards
- · Material Properties and Steel Grades

Day 2: Design of Steel Members

- Tension Member Design
- · Compression Member Design
- · Design of Beams and Girders
- Introduction to Plate Girders and Trusses
- · Serviceability and Deflection Criteria

Day 3: Design of Steel Connections

- Bolt and Weld Types and Design
- Design of Simple Connections
- · Design of Moment Connections
- · Base Plates and Anchor Bolt Design
- · Connection Detailing Practices

Day 4: Steel Structure Detailing

- Introduction to Steel Detailing
- Drawing and Detailing Standards
- · Detailing of Different Steel Elements
- Interpretation of Structural Design Drawings

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• Software Applications in Steel Detailing

Day 5: Practical Applications and Case Studies

- Case Studies of Steel Structure Projects
- Problem-solving and Design Challenges
- Hands-on Practice with Design Software
- Project-Based Detailing Workshop
- Final Assessment and Course Review