



London TDM

Civil and Construction Engineering Training Courses

Course Venue: United Kingdom - London

Course Date: From 09 November 2025 To 13 November 2025

Course Place: London Paddington

Course Fees: 7,500 USD

Course Brochure - CCE101/London/09 November 2025 By London TDM www.londontdm.com - info@londontdm.com

Introduction

AutoCAD is an essential tool for civil engineers, providing the capabilities to design, draft, and model infrastructure projects with precision and efficiency. This 5-day professional course is designed to equip civil engineers with the skills needed to effectively use AutoCAD in their projects. Through handson experience and practical exercises, participants will gain comprehensive knowledge of AutoCAD, enabling them to enhance their design capabilities and productivity.

Objectives

- To understand the fundamental concepts of AutoCAD for civil engineering projects.
- To develop proficiency in creating and editing civil engineering drawings.
- To learn to use AutoCAD tools for modeling and analyzing civil structures.
- To enhance skills in collaboration and project management using AutoCAD.
- To apply AutoCAD features to optimize civil engineering design processes.

Course Outlines

Day 1: Introduction to AutoCAD

- Overview of AutoCAD interface and tools.
- Setting up drawing units and scales for civil engineering projects.
- · Basics of creating and modifying simple drawings.
- Understanding layers and their management.
- Introduction to drawing annotation and dimensioning.

Day 2: Advanced Drawing Techniques

- Utilizing drafting settings for precision drawing.
- Advanced object modification and manipulation techniques.
- · Working with blocks, attributes, and libraries for efficient workflows.
- Introduction to 2D geometry creation for civil layouts.
- · Utilizing hatching and gradient fill techniques.

Day 3: Working with 3D Modeling

- Introduction to 3D modeling concepts in AutoCAD.
- Creating simple 3D structures for civil engineering.
- · Using surface and solid modeling tools.
- · Modifying and editing 3D models.
- · Converting 2D drawings to 3D models.

Day 4: Civil Engineering Applications

- Designing roadways and bridges with AutoCAD Civil 3D integration.
- Preparing site and grading plans.
- Creating profiles and cross-sections for infrastructure projects.
- · Stormwater management and drainage design.
- Collaborating on large-scale construction projects.

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Day 5: Final Project and Review

- Working on a final project incorporating all learned concepts.
- Review and critique of design and modeling workflows.
- Circular design and iterative project enhancements.
- Exploring AutoCAD customization and automation features.
- Course review and feedback session.