

# Geometric Design Of Urban and Rural Roads Course

## Venue Information

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**Venue:** London UK

**Place:**

**Start Date:** 2026-03-17

**End Date:** 2026-03-21

## Course Details

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**Net Fee:** £4750.00

**Duration:** 1 Week

**Category ID:** CACETC

**Course Code:** CACETC-29

## Syllabus

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### Course Syllabus

#### Course Description

Good road design will achieve operational efficiency, be safe and cost effective, and minimise the environmental impact. The role of the road designer is to produce the most appropriate design that achieves the specified functionality using the design inputs from all relevant disciplines. The design must provide for a safe and efficient road facility that takes into account all inputs from stakeholders and road users.

This course will cover these principles so that delegates will obtain a clear understanding of the key geometric design requirements for road design. Delegates will be given the opportunity to apply the knowledge gained with various design exercises and syndicate participation of a re-design of an actual three kilometre rural roads

#### Course Objective

## **Course Outline**

- Road hierarchy and road classification in both urban and rural areas
- Design control and criteria
- Sight distances and their applications
- Horizontal alignment
- Vertical alignment
- Intersections (at-grade, grade separation, interchanges)
- Traffic control devices