

# Essential Eurocode 2 including tutorials

## Course outline



### Introduction

Eurocode 2 is the current design standard for structural concrete. This course will introduce the code and explain how to apply it for simple elements in building structures. Practical tutorials allow delegates to understand how to design elements using Eurocode 2.

### Aims & Objectives:

On completion of this course delegates will have a knowledge of the principles of Eurocode 2 and be able to apply them to elements in a building structure.

After this course delegates will:

- Have an appreciation of the content of Eurocode 2 for building structures
- Know how to apply Eurocode 2 to
  - Beams
  - Slabs
  - Columns
  - Foundations
- Know how to design for
  - Flexure
  - Shear
  - Axial loading
  - Deflection
- Have an knowledge of the differences with BS 8110

### Course Outline:

- Introduction to Eurocode 2 and relationship to other Eurocodes
- Basis of design, combinations of actions
- Materials, durability, fire protection and structural analysis
- Ultimate limit state
  - Flexural design with design exercise
  - Shear design with design exercise
  - Axial resistance with design exercise
- Serviceability limit state - deflection and cracking with design exercise
- Application to foundations
- Review of design aids and guidance

### Further information

This course is intended for Structural Engineers. Some knowledge of concrete design and Eurocodes 0 and 1 would be useful but not essential. A calculator and pencil are essential, but other required materials will be provided.

### Course Duration:

1 days (6 hours) CPD