

MASONRY DESIGN TO EUROCODE 6

Date : 21 October 2008
16 April 2009

Duration : 1 Day

Cost : £207 + VAT (IStructE Members)
£230 + VAT (IStructE Non Members)

Best for Level : 1, 2 and 3

Masonry is one of the key construction materials used in the UK and is used both as a loadbearing material and as a cladding to framed structures. Brick and block masonry remain the primary construction materials for houses in the UK and are used extensively in buildings of all types. Masonry structures have withstood the test of time and proven the inherent durability and structural integrity of masonry. Today's masonry structures make use of modern materials and design methods to provide cost effective structural solutions. The introduction of the new European Codes and the supporting CEN standards provides both new opportunities and challenges for designers.

This course is a stand alone updating event for those requiring more detailed knowledge of the changes that will occur in masonry design following the introduction of Eurocode 6.

It provides an overview of the changes in both the design procedures and supporting documents resulting from the introduction of the new European Codes and Standards and compares the new requirements with the existing British Standards such as BS 5628.

COURSE OVERVIEW

- the development of the European codes and standards *explaining the background to the development of the new Codes and Standards*
- what is covered in Eurocode 6 and the supporting CEN standards *explaining the various parts and coverage*
- the National Annex *the necessary information to make Eurocode 6 useable in the UK*
- differences in the design approach for vertical load *comparison with BS5628 Part 1*
- differences in the design approach for lateral load *comparison with BS5628 Part 1*
- reinforced and prestressed masonry *comparison with BS5628 Part 2*
- fire resistance *how the fire resistance of masonry is covered*
- construction aspects *how the material currently in BS5628 Part 3 is dealt with*

COURSE PROGRAMME

- 09.30 Introduction and overview of masonry design
• standards supporting Eurocode 6
- 11.00 *Break*
- 11.15 Design for vertical load
• vertical load tutorial
- 12.45 *Lunch*
- 13.30 Design for lateral load
• lateral load tutorial
• reinforced and prestressed masonry
- 15.00 *Break*
- 15.15 Fire design
• parts 2 and 3 of Eurocode 6
- 16.30 Final discussion
- 16.45 Close

TUTOR/S

Eur Ing Professor John Roberts Hon DSc, BSc(Eng), PhD, CEng, FStructE, FICE, FBMS, FCMI, FRSA, MICT, Hon MIET, is the Principal of the Technical Innovation Consultancy and Emeritus Professor of Civil Engineering at Kingston University. He is a civil engineering graduate of London University, where he also studied for his PhD. Prior to his appointment as Mowlem Professor of Civil Engineering at Kingston University in 1988, Professor Roberts worked for the Cement and Concrete Association and the British Cement Association. He is co-author of the Concrete Masonry Designer's Handbook, the Handbook to BS:5628:Part 2, Efficient Masonry Housebuilding Design Approach, Efficient Masonry Housebuilding Detailing Approach and the Design Guide for Eurocode 6. Professor Roberts currently chairs or is a member of a number of the committees involved in the development of the European Standards. He is a past president of the International Masonry Society.

Peter Watt BSc (Eng), the Director of Charlwood Partnership Ltd. a technical consultancy practice specialising in masonry and timber construction. Previously he was principal engineer for Andy Collett Associates Ltd. For 15 years prior to that he was the senior structural engineer for The Brick Development Association based at Windsor. He has been involved for 30 years with both masonry and timber design/construction with involvement in research and development, codification work, continuing professional development activities, technical publications and consultancy. Mr Watt is a member of the BSI BS 5628 technical committee for masonry and has been a UK delegate to CEN/TC 250/SC6 for the development of Eurocode 6 for masonry structures. He is also Chairman of CEN/TC 125/WG3 for ancillary components standardisation. He is currently a International Masonry Society Council member.

covered all topics ... Excellent  19%

with good high quality Very Good  57%

support material Good  22%