

Structures – Introductory Certificate

7-day Course

It is essential that all participants within the development process have an understanding not only of the legislative and regulatory requirements, but also how buildings and their elements interact. Delegates attending sessions 1 to 6 and who pass the assessment (session 7) will be awarded the ABE Certificate in Structural Design Studies. Each one-day session will be divided into three periods of approximately two hours, excluding breaks for coffee and lunch. Each period will be further divided into a lecture of 40 minutes, followed by interactive worked examples, tutored exercises and discussions.

Programme Aims

To provide an up-to-date overview of the controls which govern the design, construction maintenance and the use of property in the Built Environment.

Programme

Day 1 – Structural Design and Loading

- Loading, sources and applications BS 6399
- Analysis: beams and frames

Day 2 – Foundations

- Basic site investigation
- Simple pad, strip and pile design
- Retaining walls and sheet piling

Day 3 – Structural Timber

- Principles and practice BS 5268
- Stresses and moduli: joists and trimmers
- Struts, ties, posts and studs

Day 4 – Masonry

- Principles and practice
- Lateral restraint and buttressing
- Movement joints

Day 5 – Structural Steelwork

- Principles and practice BS 5950
- Beams: restrained and unrestrained
- Simple columns and bases

Day 6 – Reinforced Concrete

- Principles and practice BS 8110
- Slabs and beams
- Simple columns and bases

Day 7

- Assessment

Assessment and Application of Learning

A programme study guide with lecture outlines, extracts from British Standards, work sheets and exercises with answer frameworks will be issued for each session. It should be noted that all structural reports, calculation drawings and other documentation should be undertaken and/or checked by qualified persons before any construction takes place.

DATES

Day 1	09 September 2010	HQ Northampton
Day 2	07 October 2010	HQ Northampton
Day 3	11 November 2010	HQ Northampton
Day 4	09 December 2010	HQ Northampton
Day 5	13 January 2011	HQ Northampton
Day 6	10 February 2011	HQ Northampton
Day 7	10 March 2011	HQ Northampton

PRICE

- £175 + VAT Per Day
- £50 Member Discount
- 10% Training Affiliate Discount