



Aston CPD Centre

BIRMINGHAM

Presents a One-day Training Course on Tuesday 18 October 2011
At Aston University

European Standards on Concrete Repair And Corrosion Control of Reinforcement in Concrete

The UK along with many other countries has an ageing built reinforced concrete infrastructure. Repair, refurbishment and maintenance of the built infrastructure are increasingly important. The European standards committees have responded with a number of important documents. This course will discuss the use of those standards in repair and rehabilitation projects. The 10 parts of BSEN 1504 give a framework for selecting specifying rehabilitation methods and products. The new revised edition of BS EN 12696 now covers the application of impressed current and galvanic anodes to reinforced concrete in atmospheric, buried or submerged conditions. The standards for realkalisation and chloride extraction will also be discussed. High profile case histories from the course tutor's project portfolio are included. This course will be of interest to engineers, surveyors, building managers, owners and architects, who are required to investigate, maintain, repair and conserve buildings, bridges and other large reinforced concrete structures.

- 09.45 - 10.15 **Deterioration processes in reinforced concrete**
- 10.15 - 11.00 **Principles of Concrete Repair – BS EN 1504-9**
- 11.00 - 11.15 **Coffee**
- 11.15 - 12.00 **Investigation methods**
- 12.00 - 13.00 **Repair Methods**
 - Coatings – BS EN 1504-2
 - Concrete Patch Repair BS EN 1504-3
- 13.00 - 14.00 **Lunch**
- 14.00 - 15.00 **Electrochemical Techniques**
 - Cathodic Protection The new BS EN ISO12696 and the new Concrete Society Report 73
 - Electrochemical Chloride Removal and Realkalisation CEN TS 14038 Parts 1 and 2
- 15.00 - 15.15 **Tea**
- 15.15 - 16.45 **Case Histories**
 - Cathodic protection of highway bridges
 - Cathodic protection and repair of buildings
 - Investigation and repair of marine structures
 - Buried and submerged structures

Course Tutor: Dr John Broomfield CEng, FICorr, FIMMM

For course availability: enquiries@astoncpdcentre.co.uk **Telephone enquiries:** 0121 250 3818

Fax: 0121 250 3817 **Website & Mailing Subscription:** <http://www.astoncpdcentre.co.uk>

Our courses are intended to contribute towards the CPD requirements of the relevant professional institutions.

Course Organiser: Dr M Sadeghzadeh, 0121 204 3606

Please note the programme is subject to change without prior notice

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All correspondence to: Aston CPD Centre, Birmingham Science Park Aston, iBIC, Holt Court South, Jennens Road, Birmingham B7 4EJ

Please reserveplace(s) at the course, (subject to terms & conditions) **European Standards on Concrete Repair & Corrosion Control of Reinforcement in concrete-18.10.2011**

Delegate name(s): Company:

Address:

Post Code: Email Address: Tel:

Have you any dietary, access or other requirements? **YES/NO** if **YES** please state:

Do you wish to be invoiced? Purchase Order No:

Invoice address if different from above:

Cost £229 per delegate, covering attendance, papers, lunch and refreshments during the day. (Cheques should be made payable to **Aston CPD**)