



# The Irish Concrete Society

## Basic Concrete Technology Course

- Three ½ Days of Structured CPD –



### Booking information and programme

The Society is proud to present the latest version of our course on basic concrete technology. It is suitable for all who deal with concrete in their working lives: Clients, Clerks of Works, Junior Engineers (Consulting and Contracting), Junior Architects, Ready-mix personnel, foremen, related junior professionals and anyone who would like to refresh their concrete technology knowledge.

This course will help you understand more about the most used construction material in the world. Understanding of the material is critical to both imagining the possibilities of its use as well as achieving excellence in its construction.

[www.concrete.ie](http://www.concrete.ie)

## Confirmed Speakers:

**Mr Donal Crowley**  
National Technical Manager at Roadstone

**Prof. Roger West**  
Senior lecture at Trinity College Dublin

**Mr Brian O'Rourke**  
Lecture at Cork Institute of Technology

**Dr Eanna Nolan**  
Technical Advisory Engineer – Irish Cement

**Dr Niall Holmes**  
Lecturer in Civil & Structural Engineering at Dublin  
Institute of Technology

**Mr Barry Gilroy**  
Area Manager at Mattest Ireland

## Other speakers TBC

### Lecture 1

**Location – Cork IT, Bishopstown, Cork**

**Date - 28<sup>th</sup> April 2015**

08:30 – 09:00	Registration - Tea/Coffee and Scones
09:00 – 09:05	Introduction – 5mins
09:05 – 09:35	Concrete Constituents– 30mins
09:35 – 10:10	Concrete Mix Design – 35mins
10:10 – 10:40	Specifying, Ordering, Delivery & Acceptance – 30mins
10:40 – 10:55	Tea/Coffee and Biscuits – 15mins
10:55 - 11:45	Fresh Concrete Properties – 50mins
11:45 – 12:10	Q & A – 25mins
12:10 - 13:00	Laboratory Session: Mixing, Cubes & Slumps – 50mins

#### Description

Delegates register  
A brief introduction  
An overview of the main constituents of cement and concrete.  
An outline of the procedures involved in concrete mix design.  
An introduction to how we specify concrete, order concrete, how it arrives on site and acceptance.  
An overview of concrete workability, sampling, and testing including a look at the properties of fresh concrete.  
Opportunity to ask the panel questions  
An opportunity for the delegates to make concrete cubes, carry out slump tests and see some other common tests being performed.

### Lecture 2

**Location – Cork IT, Bishopstown, Cork**

**Date - 12<sup>th</sup> May 2015**

08:30 – 09:00	Registration - Tea/Coffee and Scones
09:00 – 09:05	Introduction & Summary– 5mins
09:05 – 09:35	Formwork, Pre-Pour Checks and Placing – 30mins
09:35 – 10:00	Compaction & Finishing – 25mins
10:00 – 10:30	Curing and Strength Gain – 30mins
10:30 – 10:45	Tea / Coffee and Biscuits– 15mins
10:45 – 11:15	Typical Concrete Defects– 30mins
11:15 - 11:35	Hardened Concrete Testing – 20mins
11:35 – 11:50	Concrete Cube Results (with Videos) and closing summary of course – 15mins
11:50 – 12:40	Q&A and Open Discussion – 50mins

#### Description

Delegates register  
An overview of the mornings events and summary of what has been covered to date.  
Formwork, the typical pre-pour checks and how we place concrete.  
Compaction and finishing concrete  
How and why we cure concrete + concrete strength gain.  
Typical concrete defects and their possible causes  
Overview of the most common types of testing procedures for hardened concrete.  
Opportunity to ask the panel questions and an open discussion about concrete technology.

## Event Programme – Practical/Site Visit

**Location - TBC**

**Date – Late May 2015** - Due to the nature of this session we ask for delegates flexibility with regard to final the date.

	<u>Description</u> - subject to minor change
08:30 – 09:00 Registration - Tea/Coffee	Delegates register.
09:00 – 09:20 Site Induction & Health and Safety– 20mins	Overview of site Health and Safety protocol and Health and Safety with concrete.
09:20 – 09:30 Presentation on Project – 10mins	Brief presentation on the project including site plans and an overview of the works to be visited on this visit
09:30 – 10:00 Drawings, Bar Bending Schedules and Quality Control – 30mins	Delegates will be asked to study drawings and bar bending schedules. They will be shown how to cross reference and check reinforcement.
10:00 – 10:30 Pre-pour Inspection – 30mins	Delegates will be explained the process involved in pre pour inspections.
10:30 – 12:00 Placing Concrete – 90mins	Delegates will witness concrete being poured, compacted, floated and a demonstration of concrete curing methods.

The above times are site dependant and subject to change

## - The Irish Concrete Society - Basic Concrete Technology Three ½ Days CPD

This is the **final pilot run of our new course** and is offered at a special rate (No VAT) including tea/coffee breaks:

- Irish Concrete Society Members: **€145**
- Non-Members: **€195**

10% discount for companies sending more than one delegate

Due to the strict limits on delegate numbers to this event, we are unable to offer the normal range of ICS concession rates. This training event is subject to a minimum number of participants and we may make small changes to the topics covered. No refund for cancellations – delegate replacement allowed. Contact [secretary@concrete.ie](mailto:secretary@concrete.ie) for more information.

### The Irish Concrete Society | Basic Concrete Technology | April/May 2015 - Cork

I enclose remittance for \_\_\_\_ Places at the Seminar @ €\_\_\_\_\_/person

Total Remittance € \_\_\_\_\_

Delegate name \_\_\_\_\_ delegate email \_\_\_\_\_

Delegate name \_\_\_\_\_ delegate email \_\_\_\_\_

Delegate name \_\_\_\_\_ delegate email \_\_\_\_\_

Company name \_\_\_\_\_ contact name: \_\_\_\_\_

Tel: \_\_\_\_\_ Email: \_\_\_\_\_

Please make all cheques payable to: The Irish Concrete Society and return to Platin, Drogheda, Co. Louth

Electronic transfer – Quote company and delegate name in the transaction reference and return this form.

**Name:** The Irish Concrete Society

**Branch:** Bank of Ireland, Blackrock, Co. Dublin

**Sort Code:** 90-10-28

**Account Code:** 85791285

**IBAN:** IE73 BOFI 9010 2885 7912 85

**VAT No.** VAT No. 9802217B