



Presented By: Greg Parrott

Course objective

This one-day course is aimed at developing an understanding into the basic design theory as well as demonstrating the application thereof from a practical design point of view.

The course would be suitable for young engineers and technologists, as well as experienced engineers who feel the need to get back to grips with the basics of reinforced concrete design.

Who should attend?

Young engineers and technologists who have chosen a career in structural design will gain the opportunity of revising the theory of reinforced concrete design that was covered during their studies, obtain a better understanding of it and expand it into the practical application thereof.

Experienced engineers, who have not been involved with the design of reinforced concrete for some length of time, may find that new or future projects do require the design of reinforced concrete elements. This course would be a good refresher to enable such a person to tackle these tasks with renewed confidence.

Course outline?

- General Introduction
- Limit States Design philosophy
- Analysis Analysis methods Re-distribution of moment
- Beams in flexure Singly reinforced Doubly reinforced Flanged beams
- Beams in shear
- Serviceability of beams Cracking Deflection
- Slabs in flexure One-way spanning Unrestrained two-way spanning Restrained two-way spanning Flat slabs
- Detailing
- Punching shear in slabs
- Columns
- Spreadsheets for structural design

Requirements

Delegates should be qualified with a Degree or Diploma in Civil Engineering and preferably be registered with ECSA. Registration fees includes material, teas, lunch.

Register?

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In-house courses can be arranged on request but are subject to a minimum number of delegates.