CONCRETE ROAD DESIGN AND CONSTRUCTION

Course Overview
The course focuses on the technology applied in the design and construction of concrete pavements. It covers the supporting layers, thickness design using computer program, cncPave, and joint design, detailing and layout. Concrete materials and mix design, construction, modes of distress and failure and rehabilitation are also included.

Minimum entrance requirements
A degree or diploma in civil engineering is recommended. A number of years' experience in road design and/or construction is highly recommended.

Course Outline

- **Pavement types and behaviour**
  - Rigid pavement types and behaviour
  - Distress and modes of failure
  - Design objectives

- **Concrete pavement support**
  - Subgrades
  - Subbases
  - Drainage

- **Pavement design**
  - Introduction to mechanistic design
  - Mechanistic design – cncPave and other methods
  - Use of cncPave

- **Concrete mix design**
  - Materials and specifications
  - Mix design
  - Durability

- **Joints**
  - Load transfer
  - Joint design

  - Joint layout
  - Sealants

- **Reinforcement**
  - Use and detailing of reinforcement
    - Construction
  - Mechanised
  - Labour intensive
  - Inlays
  - Overlays
  - Low volume roads

Facilitators
Bryan Perrie
Dr P Strauss

This course has been accredited for 1 CPD credit

Dates & Venue:
26 July 2017 in Cape Town
12 September 2017 in Midrand
19 September 2017 in Durban

Fee:
Per Delegate (Including VAT) SARF/SAICE members R2500
Sponsor R2650
SARF/SABITA members R2650
SAICE members R2650
Non-members R2650

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