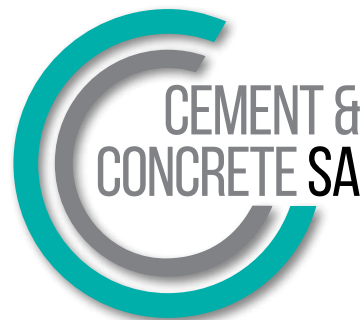


# EDUCATION PROGRAMME

The School of Concrete Technology



2024



## ACCREDITATION AND ENDORSEMENT

Continuing Professional  
Development (CPD) points  
are awarded to selected courses.

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# School of Concrete Technology 2024

## INTRODUCTION

We live in exciting times! Especially in the field of concrete technology.

These exciting times are being brought about by climate change and new technologies.

Climate change is now a reality, revealing itself with the ever-increasing occurrences of extreme weather events, rising sea levels, loss of ice cover in the arctic and northern hemisphere, warming oceans, rising temperatures, and changing rainfall patterns. Extreme weather events such as flooding, storm surges, high winds, heat waves and droughts with frequent and severe wildfires, requires a resilient and pro-actively designed and built infrastructure. Concrete will play a vital role in the mitigation of these adverse effects.

Climate change unfortunately presents a double edge sword for the concrete industry. Durable concrete infrastructure is needed for the mitigation of extreme climate change events while at the same time there is an associated carbon footprint with the use of more concrete. Herein lies a second exciting challenge for concrete technology, which is the drive towards carbon neutral concrete.

## Cement & Concrete SA

Cement and Concrete SA provides a comprehensive range of technical services to the concrete industry in Southern Africa, through the provision of education and training, information, publications on concrete technology and specialist technical services.



**CEO** Bryan Perrie, Pr.Eng, MSc. Eng, MICT



Block D, Lone Creek, Waterfall Park,  
Bekker Rd, Midrand



PO Box 168, Halfway House, 1685,  
South Africa



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[www.cemcon-sa.org.za](http://www.cemcon-sa.org.za)



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**PUBLISHED** Cement & Concrete SA, Midrand, 2024

**DESIGN, LAYOUT & PRODUCTION**

DesignWright: 083 448 4264



Striving for a lower concrete carbon footprint involves interesting challenges in mix design, material use and structural design covering the whole life cycle of concrete. Something that, only a few years ago, truly little time and thought was assigned to.

New technologies are evolving in the concrete industry. The deployment of drone technology, thermal imaging, remote sensing, admixture advances are all examples, but by far the newest and biggest kid on the block is 3D concrete printing. It is in its infancy and currently can be likened to the 'brick like' cell phones of yesteryear, but given the phenomenal advances in cell phones, we can easily say, regarding 3D concrete printing, in words borrowed from Bachman-Turner Overdrive "You ain't seen nothin' yet!". The potential for 3D concrete printing is quite staggering, providing juicy work for those involved in concrete technology and structural design. The concrete 'ink' mix design requires a whole new innovative look at materials and admixtures to meet the unique properties required of 3D printed concrete.

To take advantage of these 'exciting times' a solid foundation in concrete technology education is needed. The School of Concrete Technology (SCT) has a structured progression of course levels that will allow a prospective student to join at a level that matches his or her competency. There can be no short cuts to becoming a good concrete technology practitioner and the SCT has all the educational requirements to help you meet your goals.

Please contact the School of Concrete Technology to discuss the best concrete technology educational path for you.

The school would like to thank all clients and students that supported us during 2023. We look forward to continuing your concrete education in 2024.

# GENERAL INFORMATION

## Registration for courses

Complete and e-mail the appropriate registration form on pages 13 to 18 or contact the administrator. (See contact information on last page.) You may download registration forms from our website on [www.cemcon-sa.org.za](http://www.cemcon-sa.org.za)

## Course fees

Please note that all course fees must be paid prior to the start of the course and bookings are only confirmed upon receipt of either the full course fee or an order from producer members of Cement & Concrete SA. Deposits should be made into the Cement & Concrete SA account. Deposits and cheques must be identified by course name and date and be made out to Cement & Concrete SA.

A copy of the deposit slip must be e-mailed with the reference number to

[rennisha.sewnarain@cemcon-sa.org.za](mailto:rennisha.sewnarain@cemcon-sa.org.za) /  
[eldene.magill@cemcon-sa.org.za](mailto:eldene.magill@cemcon-sa.org.za)

## Banking details

Standard Bank, Midrand, branch code 001155 and account number 202 493 784 / SWIFT CODE: SBZAJJ.

## Cancellations

Cancellations less than five days prior to the course and non-attendance will result in a charge of 100% of the course price.

## VAT invoices

A Tax Invoice will only be issued to customers on request and or receipt of a purchase order number from a producer member and customers that are registered vendors with Cement & Concrete SA. All invoices must be paid within 30 days of receipt. To assist with payments, quotations will be issued on receipt of a registration form.

## Rewrites

Learners may be permitted to rewrite a test, by mutual agreement with the SCT lecturer and also depending on the result.

## Safety requirements

Learners attending classroom-based courses may make use of the CCSA training laboratory to demonstrate various aspects of concrete. Therefore, will be required to wear safety shoes, and avoid loose fitting clothing for safety.

## Membership

For more information on membership please visit our website. [www.cemcon-sa.org.za](http://www.cemcon-sa.org.za)

## Accommodation

Learners and their employers are responsible for all travel and accommodation arrangements and costs.

The following accommodation is available in Midrand.

Midrand Town Lodge.....+27 (0)11 315-6047

Premier Hotel Midrand.....+27 (0)10 161-0000

City Lodge (Waterfall City) .....+27 (0)10 065-0000

## Meals

Tea, coffee and lunch are included in the course fees. Special dietary requirements must be discussed with the SCT Administrator in advance.

## Online

If you are interested in online courses, kindly discuss with the SCT Administrator for the way forward.

## ICT EXAMS STAGE 2, 3 and

**ACT time: 11h00 - 14h00**

## TERMS AND CONDITION POLICY:

### Cancelation or Postponement of scheduled courses

The School of Concrete Technology reserves the right to cancel or postpone courses at any time due to unforeseen circumstances/ or due to the lack of demand. In the event of cancellation or postponement a full refund or credit towards a future class will be made to confirmed registrations only.

Contact the SCT Administrator for the option you would prefer.

***NB: Always clearly identify the course, course dates and the person(s) for whom payment is being made.***

# COURSES

## SCT 10

2 days

### Introduction to concrete

This course is recommended for small, medium and micro enterprises, junior technical and sales staff in the building, construction and allied industries, and anyone wanting a short introduction to concrete. Learners must be able to read and write English.

#### SYLLABUS

- Properties of concrete
- Materials for concrete
- Receiving and storing materials
- Batching, mixing and testing concrete
- Transporting, placing and compacting
- Finishing and surface preparation
- Protection and curing
- Formwork and reinforcement
- Sand-cement mixes
- Durability of concrete

## SCT 12

½ day

### Mortars, plasters, screeds and masonry

This course was originally developed to assist NHBC inspectors to interpret the requirements of the NHBC 'Home Builder's Manual' and is written around that manual to the extent that the clauses are cross-referenced from the notes.

#### SYLLABUS

- Factors that affect the strength of concrete
- The role and selection of cement, sand, stone and water
- Receiving and storage of materials
- Mix proportions for concrete for foundations and floors
- Floor screeds
- The slump and cube tests for concrete
- Concrete and clay masonry, expansion and shrinkage
- Cavity walls and block walls
- The need for movement joints
- Properties of mortar and plaster
- Sand-cement mixes
- Common causes of cracking
- Screeds



## SCT 13

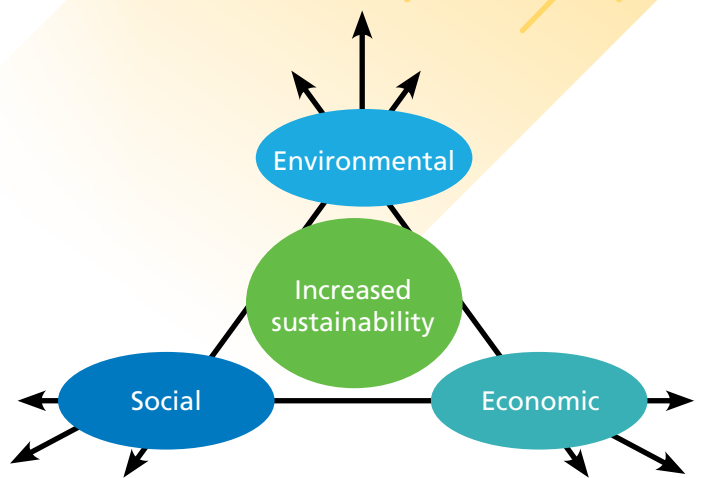
½ day

### Making concrete bricks and blocks

This course will assist with empowering learners, giving them a rudimentary understanding of how to manufacture masonry units. Learners must be able to read and write English.

#### SYLLABUS

- Requirements of masonry
- How cement works and how to make masonry strong
- The quantity of water necessary for workability
- Blockmaking machines
- Selection of materials and mix proportions
- Curing of finished blocks
- Storage of materials
- Sand-cement mixes
- Testing of masonry
- Building with masonry to minimise cracking



The Triple Bottom Line concept

## SCT 14 (special course)

1 day

### Concrete for RMC truck drivers

This course is intended to give RMC truck drivers an introduction to concrete and the tests that may be carried out in their presence. The course will provide basic concrete technology and will enable the driver to understand the importance of his position as a front line staff member interfacing with the client.

#### SYLLABUS

- Factors that affect the strength of concrete
- Bleeding, workability, cohesion and segregation of concrete
- The slump test – how to do it and what it means
- The cube test – how to make cubes and what they mean
- The effect of hot/cold weather on the transport of concrete
- Delays, contamination or spillage during transport
- Access to the worksite
- The effect of the addition of water
- Transport of concrete around the site after discharge
- Things to observe on site
- Washing out of the truck
- Customer relations

## SCT 15 (special course)

1 day

### Concrete for batchers and batch plant staff

This course covers important topics that will provide batchers and staff at a batch plant with the essential concrete education and theory required to competently do their jobs and produce quality readymix concrete.

- A batcher's responsibilities
- Constituent materials and the effect they have on concrete
- Fresh properties of concrete and the tests required to check these properties
- Basics of mix design including the control of the overall water content in a mix
- Testing for the hardened properties of concrete
- Clients requirements and customer satisfaction
- Basic management of a batch-plant including quality control and assurance

#### Who should attend

This course has been developed specifically for batchers but would also greatly benefit any person working on or with a batch plant including supervisors, laboratory staff, sales staff and general labourers.

## SCT 20

4 days

### Concrete practice

CPD Points – 4

This course is recommended for foremen, clerks-of-work, technicians, supervisors, sales and technical staff in the building, construction, mining and related industries.

#### Minimum entrance requirements

Grade 10, able to read and write English and do basic arithmetic calculations including percentages and ratios.

#### SYLLABUS

- Properties of fresh concrete
- Properties of concrete at early ages
- Properties of hardened concrete
- Materials for concrete
- Mix proportions and quantities
- Concrete production
- Transporting
- Placing and compacting
- Protection and curing
- Formwork
- Reinforcement
- Joints
- Sand-cement mixes
- Concreting in hot and cold weather
- Defects and repairs
- Low-density concrete
- Prestressed concrete
- Precast concrete
- Off-shutter and architectural finishes
- Sampling and testing
- Concrete pavements

## SCT 21

1 day

### Concrete industrial floors on the ground

Online or classroom based

CPD Points – 1

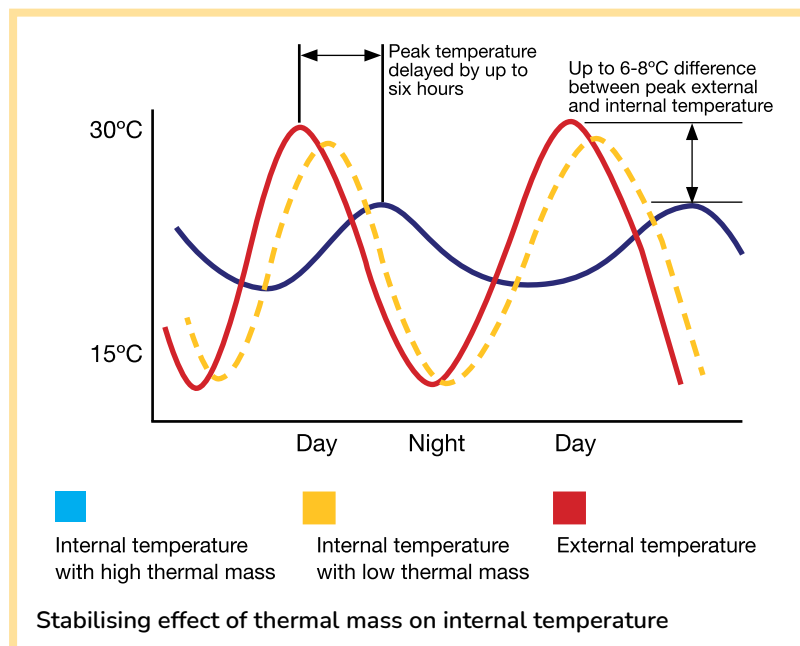
This concrete industrial floors on the ground course aims to help engineers and contractors by giving a broad, detailed and practical overview of all facets of industrial floor construction.

#### Minimum entrance requirements

Grade 12 minimum.

#### SYLLABUS

- Design philosophy
- Subgrades and subbases
- Concrete
- Joints
- Reinforcement
- Construction
  - Subgrades and subbases
  - Damp-proofing
  - Construction joints
  - Concrete production and placing
  - Construction methods
  - Vacuum dewatering
  - Side forms
  - Dowels
  - Edging
  - Finishing
  - Curing
  - Joint sawing
  - Joint sealing
- Surface finishes
  - Construction methods
  - Finishing techniques
  - Adverse weather
  - Concrete toppings
  - Surface treatments
- Special applications





## SCT 22

1 day (SARF)

### Concrete road design and construction Online or classroom based

CPD Points – 1

This 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

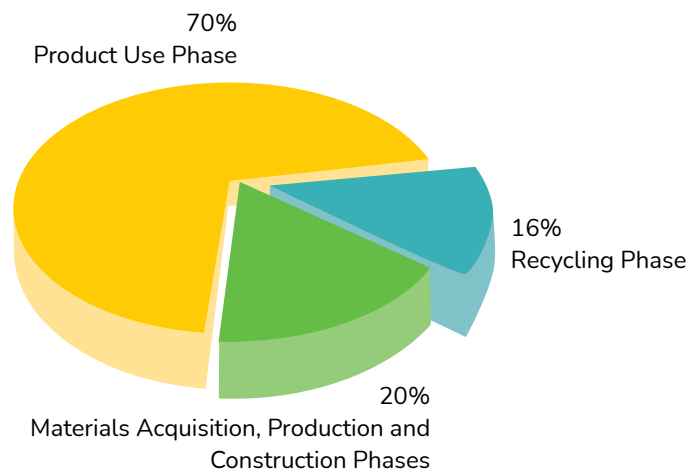
A degree or diploma in civil engineering is recommended. A number of years' experience in road design and/or construction is highly recommended.

#### SYLLABUS

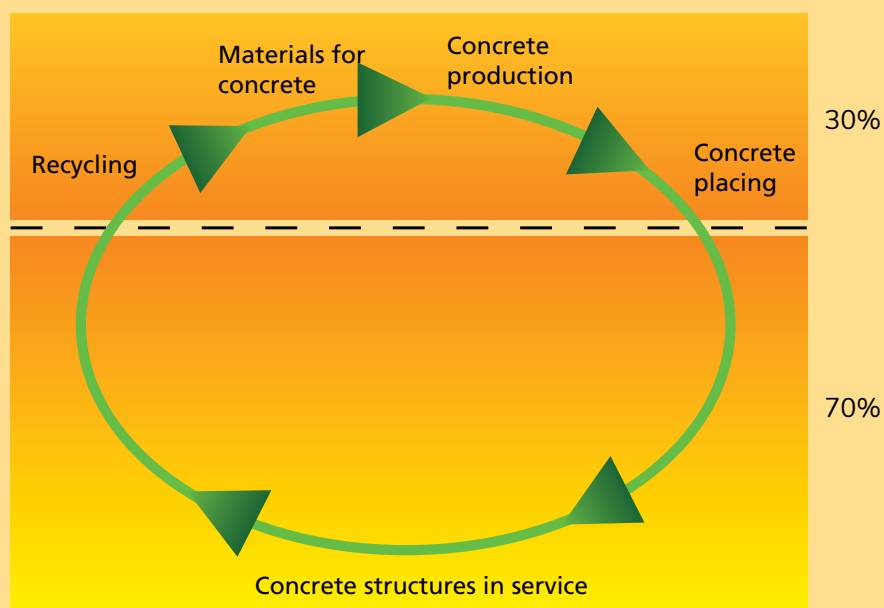
- Pavement types and behaviour
  - Rigid pavement types and behaviour
  - Distress and modes of failure
  - Design objectives
- Concrete pavement support
  - Subgrades
  - Subbases
  - Drainage
- Pavement design
  - Introduction to mechanistic design
  - Mechanistic design – cncPave and other methods
  - 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

Administered  
by SARF on  
011 394 9025



The life-cycle approach to sustainable development



The life-cycle approach to sustainable development

## SCT 30

5 days

### Concrete technology

CPD Points – 5

This is an intensive course intended for civil and structural engineers, experienced technicians and technologists and is an excellent medium for gaining detailed knowledge of how cement and concrete works. Recommended for electrical, mechanical and mining engineers to meet their mining qualification requirements.

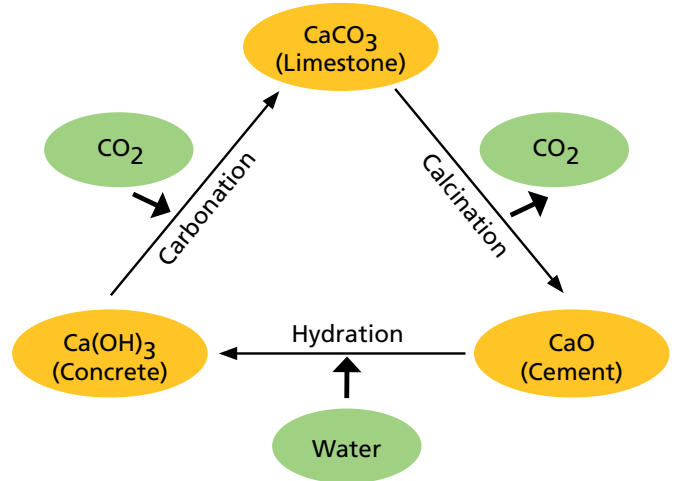
#### Minimum entrance requirements

Grade 12 with mathematics and science and at least two years of appropriate experience.

#### SYLLABUS

- Properties of fresh concrete
- Properties of concrete at early ages
- Properties of hardened concrete
- Cement and cementitious extenders
- Aggregates
- Mixing water and chemical admixtures
- Concrete mix design
- Concrete production
- Transporting

Discounts available  
for those wanting to  
do SCT 41 & 42 if  
you have completed  
SCT 30.



#### The lime cycle

- Placing and compaction
- Protection and curing
- Formwork
- Reinforcement
- Joints
- Defects, blemishes and repairs
- Mix design and mixes for specialised applications
- Sand-cement mixes
- Off-shutter and architectural finishes
- Temperature and concrete

## SCT 37 (special course)

### Durability of concrete

CPD Points – 1

This course gives an excellent overview of all the topics that are related to concrete durability. It is ideal for an engineer or concrete technologist or foreman involved in the specification, production or placement of durable concrete.

#### SYLLABUS

- How cement works to ensure impermeability
- Mechanisms of mechanical deterioration
- Mechanisms of chemical deterioration
- Methods of making concrete impermeable
- Testing of permeability, sorptivity and conductivity



## SCT 41 & 42

### Concrete technology & construction (Stage 2 and 3) offered by the Institute of Concrete Technology (ICT) based in London

The SCT 41 and 42 are ideal bridging courses for those who would like to do the SCT 50 Advanced Concrete Technology diploma. They will substantially expand on the knowledge gained in the SCT 30 Concrete Technology course. It is recommended that a potential delegate should have completed the SCT 30 Concrete Technology course before attempting these courses. A pass in the SCT 41 and 42 courses is a prerequisite to being accepted onto the SCT 50 Advanced Concrete Technology diploma program.

The two courses offered are:

SCT 41: General Principles (Part 1) (ICT Stage 2)

SCT 42: Practical Applications (Part 2) (ICT Stage 3)

The courses are presented in an e-learning - self study format. The aim in studying concrete technology via these on-line course will be to prepare yourself for the Institute of Concrete Technology's Stage 2 and Stage 3 (General Principles & Practical Application examinations).

The Institute of Concrete Technology (ICT), based in London, UK provides the course objectives and the final examination.

Cement & Concrete SA (CCSA) based in Midrand, South Africa provides you with:

- The self study course, consisting of 36 lessons covering all the ICT requirements
- Specialist lecturer supervision, guidance and input, via email

- Compulsory workshops are scheduled shortly before the examination
- An examination venue
- A compilation of ICT past years exam papers
- Upon registration and full payment, you will receive a licence key.

Registrations will be accepted until 15 January 2024. Any cancellation for examinations must be done before end of February to avoid being charged registration fee.

The examinations consist of one three-hour paper for each course. Exams are written in Midrand only.

(All queries related to the examination scripts and or examination remarking must be dealt with ICT (London) directly.)

#### Minimum entrance requirements

Grade 12.

One day compulsory revision workshop is held in Midrand only in April 2024 prior to the examinations in May.

**ICT EXAMS STAGE 2, 3 and ACT time: 11h00 - 14h00**



# modularized self-study

## SCT 50

### Advanced Concrete Technology

Modularised self-study course offered by CCSA in preparation for stage 4 Advanced Concrete Technology examinations set by the Institute of Concrete Technology (ICT) based in London.

The Advanced Concrete Technology (ACT) diploma enjoys world-wide acceptance as the leading qualification in concrete technology and is examined by the UK based Institute of Concrete Technology (ICT). The ICT sets high educational standards and requires its members to abide by a code of professional conduct, thus enhancing the profession of concrete technology.

The SCT 50 will consist of five modules, listed below, which copies the structure of the new Fulton's 10th edition. The set book for the course is the Fulton's 10th edition. Delegates on the programme will also be supplied with supplementary reading material. Each of the first four modules will have a workbook that will be required to be handed in on completion of the module. This workbook will be assessed and commented on by a lecturer at SCT. Satisfactory completion of the module work book will enable a delegate to proceed to the next module.

The only entrance requirement to be admitted onto the SCT 50 programme will be a pass in both the ICT stage 2 (SCT 41) and stage 3 (SCT 42) examinations. There will be no exceptions to this entrance requirement.

The modularised self-study approach has been adopted to ensure a better quality of concrete technology education. It allows the delegate more time to study each topic in detail while reducing the impact on his or her work environment. It also allows for incremental payment. By paying per module no large upfront payment is needed.

The modules are divided under the following topics:

Module 1: Materials and mixes

Module 2: Concrete properties

Module 3: Concrete manufacture, site practices, quality control and non-destructive testing

Module 4: Special concretes and techniques

Module 5: Concrete sustainability, Statistics for concrete and Advanced Concrete Technology project

Delegates will be allowed to enroll in up to two modules at a time and will only be able to enrol in further modules on satisfactory completion of a module work-book.

#### Applications

Applications to do SCT 50 modules can be made at any time.

#### Entrance requirements

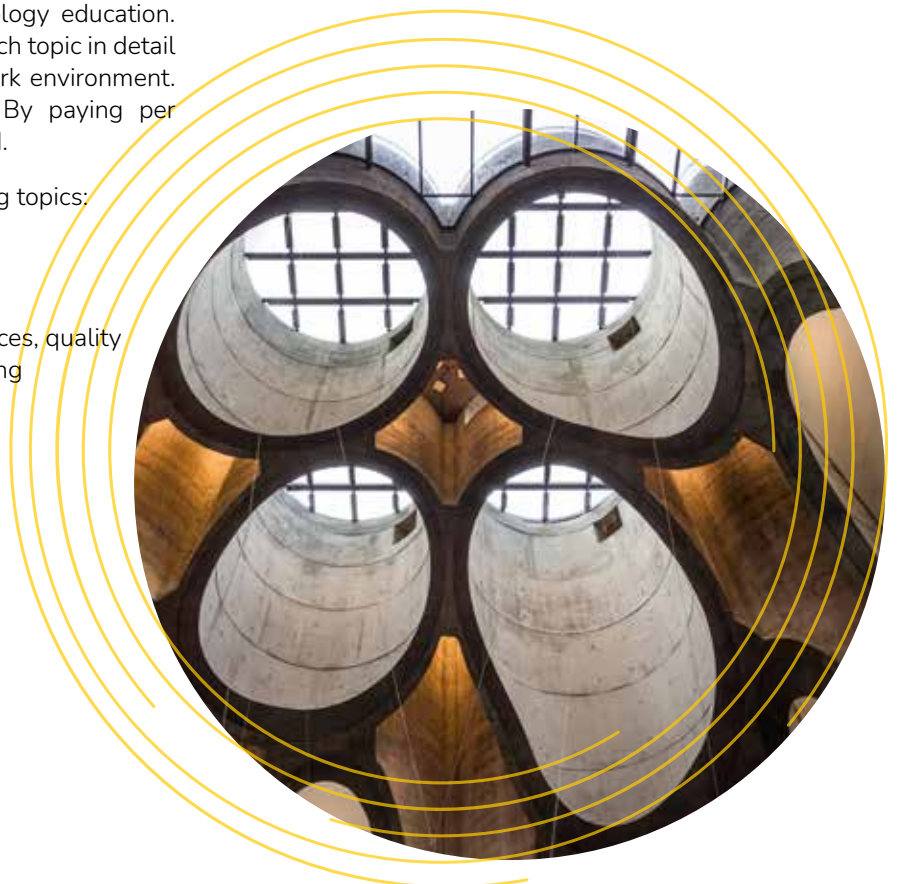
Pass in both the ICT Stage 2 (SCT 41) and Stage 3 (SCT 42) examinations.

No exceptions will be entertained.

#### Learning objectives:

The learning objectives can be downloaded from the ICT website under the 'qualifications' button using the link below.

<https://www.theict.org.uk/Qualifications.asp>



# COURSE DATES 2024

Please find the start date for the courses, on registration the duration of the course will be communicated.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>SCT 10 – Introduction to Concrete</b> Midrand Durban Cape Town		19-20		8-9	20-21	4-5	15-16 9-10	19-20		28-29	25-26	
<b>SCT 12 – Mortars, Plasters, Screeds and Masonry</b> Midrand Durban Cape Town		22		11	23	6	18 11	22		31	28	
<b>SCT 13 – Making Concrete Bricks and Blocks</b> Midrand Durban Cape Town		23		12	24	7	19 12	23			1 & 29	
<b>SCT 15 – Concrete for Batchers and Batch Plant Operators</b> Midrand Durban Cape Town				24								
<b>SCT 20 – Concrete Practice</b> Midrand Durban Cape Town		5-8			6-9		26-29 29-1			14-17 7-10		
<b>SCT 21 – Concrete Industrial Floors on the Ground</b> Midrand Durban Cape Town			13			25			10			
<b>SCT 22 – Concrete Road Design and Construction</b> Midrand Durban Cape Town			14			26			11			
<b>SCT 30 – Concrete Technology</b> Midrand Durban Cape Town			4-8		27-31		22-26		2-6	21-25	11-15 18-22	
<b>SCT 41 – ICT Concrete Technology and Construction: General Principles</b> Revision Workshop Exam				18	14							
<b>SCT 42 – Concrete Technology and Construction: Practical Applications</b> Revision Workshop Exam				19	15							
<b>SCT 50 – Advanced Concrete Technology</b> Part 1 Part 2							3 4					

# COURSE FEES

	Excl VAT (R)	Incl VAT (R)
<b>SCT 10</b> Introduction to concrete.....	3 640	4 186
<b>SCT 12</b> Mortars, plasters, screeds and masonry (½ day).....	1 660	1 909
<b>SCT 13</b> Making concrete bricks and blocks (½ day) .....	1 660	1 909
<b>SCT 14</b> Concrete for RMC truck drivers (special course, 1 day) .....	2 920	3 358
<b>SCT 15</b> Concrete for batchers and batch plant staff (special course, 1 day) .....	2 920	3 358
<b>SCT 20</b> Concrete practice.....	9 860	11 339
<b>SCT 21</b> Concrete industrial floors on the ground.....	2 920	3 358
<b>SCT 22</b> Concrete road design and construction .....	2 920	3 358
<b>SCT 30</b> Concrete technology .....	12 840	14 766
<b>SCT 37</b> Durability of concrete (special course) .....	2 920	3 358
Re-examination.....	940	1 081
<b>SCT 41</b> ICT Concrete Technology and Construction – General principles (includes a 1 day compulsory workshop)		
South Africa.....	21 460	24 679
Other countries .....	21 460	
Re-examination .....	2 700	3 105
Workshop (Re: Registration) (per part).....	2 500	2 875
<b>SCT 42</b> ICT Concrete Technology and Construction – Practical applications (includes a 1 day compulsory workshop)		
South Africa.....	21 460	24 679
Other countries .....	21 460	
Re-examination .....	2 700	3 105
Workshop (Re: Registration) (per part).....	2 500	2 875
<b>SCT 50</b> Advanced Concrete Technology 2024		
South Africa.....	36 000	41 400
Other countries .....	36 000	
Cost per module .....	7 200	8 280
Re-examination (per part) .....	3 040	3 496

# REGISTRATION FORM

## SCT 10, 12, 13, 14, 15, 20, 21, 30 & 37

Cement & Concrete SA (School of Concrete Technology)

Tel: +27 (0)11 315 0300

E-mail: [rennisha.sewnarain@cemcon-sa.org.za](mailto:rennisha.sewnarain@cemcon-sa.org.za) / [eldene.magill@cemcon-sa.org.za](mailto:eldene.magill@cemcon-sa.org.za)

Website: [www.cemcon-sa.org.za](http://www.cemcon-sa.org.za) | PO Box 168, Halfway House, 1685, Midrand, South Africa

To register for a course, please complete this form and e-mail to the SCT Administrator / Course organiser. You may also download the registration form from our website at <https://www.cemcon-sa.org.za>

I wish to attend the following course: Please tick the appropriate box

SCT 10	SCT 12	SCT 13	SCT 14 SPECIAL	SCT 15 SPECIAL	SCT 20
SCT 21	SCT 30	SCT 37 SPECIAL	Rewrite SCT		

Start date of course..... Venue.....

### Where did you hear about us:

Facebook  Internet  Word of Mouth

**It is imperative that all fields are completed. Without completion, we cannot process registrations.**

### Delegate's Details

Title & initials   Surname

First Name  ID number     
(as per ID book) (Registration will only be accepted with a copy of Learners ID or ID)

Sex: M  F  Date of Birth

Tel no W    Cell no

E-mail.....

For any special dietary requirements there will be an additional charge: .....  
..... (please confirm 72 hours prior to arrival)

Educational Qualifications:  Grade 8  Grade 9  Grade 10  Grade 11  Grade 12  Other

Tertiary Qualifications .....

Trade/occupation .....

### Contact details of person responsible for sending you on course

Name  Position in Company

Tel no W

Cell    E-mail.....

Signature of person responsible for sending you on course: .....

Please complete overleaf

**It is imperative that all fields are completed. Without completion, we cannot process registrations.**

**Invoicing Details**

**Invoice required** YES  NO

Name of Person responsible for payment

Position in Company  E-mail.....

Tel no W    Cell no

Company Name .....

Company Postal Address .....

Company VAT No.

**METHOD OF PAYMENT** Payment, or proof thereof must be received prior to the training

**NOTE** No certificates will be generated up until full proof of payment is received by the SCT Administrator / Course organiser.

Cash		Bank Deposit		EFT	
------	--	--------------	--	-----	--

**IMPORTANT INFORMATION**

**All fees are payable in advance**

- Registration is only confirmed on receipt of full payment.
- Customers will be invoiced on request.
- All invoices must be paid within 30 days of receipt.
- The School reserves the right to postpone, cancel or change the venue of courses should the need arise. Full fees will be refunded on request.

**Cancellations**

- Cancellations less than five business days prior to the course and non-attendance will result in a charge of 100% of the course price, subject to any applicable law.

**Payment**

- Electronic transfer or direct deposit into our bank account, must be validated by an emailed copy of the transaction slip clearly identifying the learner(s), course and your company name to ensure that your payment is correctly allocated. Please include quote or invoice number when processing payment as reference.

**Banking details:** Cement & Concrete SA    Swift code: SBZAZAJJ    Account No: 202 493 784  
Standard Bank    Branch code: 00 11 55

I have read and understood the above: SIGNATURE .....

NAME IN BLOCK LETTERS.....





# REGISTRATION FORM

## Concrete technology & construction: e-learning SCT 41 & 42

Cement & Concrete SA (School of Concrete Technology)

Tel: +27 (0)11 315 0300

E-mail: [rennisha.sewnarain@cemcon-sa.org.za](mailto:rennisha.sewnarain@cemcon-sa.org.za)

Website: [www.cemcon-sa.org.za](http://www.cemcon-sa.org.za) | PO Box 168, Halfway House, 1685, Midrand, South Africa

To register for a course, please complete this form and e-mail to the SCT Administrator. You may also download the registration form from our website at <https://www.cemcon-sa.org.za>

I wish to attend the following course: Please tick the appropriate box

SCT 41 General Principles

SCT 41 Workshop

SCT 42 Practical Applications

SCT 42 Workshop

Re-examination in SCT 41

Re-examination in SCT 42

*(Exams are written in Midrand only)*

### Where did you hear about us:

Facebook

Internet

Word of Mouth

**It is imperative that all fields are completed. Without completion, we cannot process registrations.**

### Delegate's Details

Title & initials

Surname

First Name

ID number

*(as per ID book)*

*(Registration will only be accepted with a copy of Learners ID or ID)*

Sex: M

F

Date of Birth

Tel no W

Cell no

E-mail .....

For any special dietary requirements there will be an additional charge: .....

..... (please confirm 72 hours prior to arrival)

Educational Qualifications:

Grade 8

Grade 9

Grade 10

Grade 11

Grade 12

Other

Tertiary Qualifications .....

Trade/occupation .....

### Contact details of person responsible for sending you on course

Name

Position in Company

Tel no W

Cell

E-mail.....

Signature of person responsible for sending you on course: .....

*Please complete overleaf*

**It is imperative that all fields are completed. Without completion, we cannot process registrations.**

**Invoicing Details**

**Invoice required**

YES  NO

Name of Person responsible for payment

Position in Company  E-mail.....

Tel no W    Cell no

Company Name .....

Company Postal Address .....

Company VAT No.

**METHOD OF PAYMENT** Payment, or proof thereof must be received prior to the training

Cash		Bank Deposit		EFT	
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## IMPORTANT INFORMATION

**All fees are payable in advance**

- Registration is only confirmed on receipt of full payment.
- Customers will be invoiced on request.
- All invoices must be paid within 30 days of receipt.
- Exam hours are from 11h00 to 14h00.
- The School reserves the right to postpone, cancel or change the venue of courses should the need arise. Full fees will be refunded on request.

**Cancellations**

- Cancellations less than five business days prior to the course and non-attendance will result in a charge of 100% of the course price, subject to any applicable law.

**Payment**

- Electronic transfer or direct deposit into our bank account, must be validated by an e-mailed copy of the transaction slip clearly identifying the learner(s), course and your company name to ensure that your payment is correctly allocated. Please include quote or invoice number when processing payment as reference.

**Banking details:** Cement & Concrete SA      Swift code: SBZAZAJJ      Account No: 202 493 784  
 Standard Bank                                      Branch code: 00 11 55

I have read and understood the above: SIGNATURE .....

NAME IN BLOCK LETTERS.....

**(All queries related to the examination scripts and or examination remarking must be dealt with ICT (London) directly.)**



# REGISTRATION FORM

## Advanced Concrete Technology (ACT) – SCT 50

Cement & Concrete SA (School of Concrete Technology)

Tel: +27 (0)11 315 0300 | E-mail: [rennisha.sewnarain@cemcon-sa.org.za](mailto:rennisha.sewnarain@cemcon-sa.org.za)

Website: [www.cemcon-sa.org.za](http://www.cemcon-sa.org.za) | PO Box 168, Halfway House, 1685, Midrand, South Africa

To register for a course, please complete this form and e-mail to the SCT Administrator. You may also download the registration form from our website at <https://www.cemcon-sa.org.za>

I wish to attend the following course: Please tick the appropriate box

Advanced concrete technology:  Module 1  Module 2  Module 3  Module 4  Module 5

Re-examination:  PART 1  PART 2

*(Exams are written in Midrand only)*

### Where did you hear about us:

Facebook  Internet  Word of Mouth

**It is imperative that all fields are completed. Without completion, we cannot process registrations.**

### Delegate's Details

Title & initials   Surname

First Name  ID number     
*(as per ID book)* *(Registration will only be accepted with a copy of Learners ID or ID)*

Sex: M  F  Date of Birth

Tel no W    Cell no

E-mail.....

For any special dietary requirements there will be an additional charge: .....

..... (please confirm 72 hours prior to arrival)

### Compulsory entrance requirement for ACT.

ICT Stage 2 / SCT 41: YES  NO

ICT Stage 3 / SCT 42: YES  NO

### Contact details of person responsible for sending you on course

Name  Position in Company

Tel no W

Cell    E-mail.....

Signature of person responsible for sending you on course: .....

*Please complete overleaf*

**It is imperative that all fields are completed. Without completion, we cannot process registrations.**

**Invoicing Details**

**Invoice required** YES  NO

Name of Person responsible for payment

Position in Company  E-mail.....

Tel no W    Cell no

Company Name.....

Company Postal Address .....

Company VAT No.

**METHOD OF PAYMENT** Payment, or proof thereof must be received prior to the training

Cash		Bank Deposit		EFT	
------	--	--------------	--	-----	--

**IMPORTANT INFORMATION**

- Registration is only confirmed on receipt of full payment.
- Exam hours are from 11h00 to 14h00.
- Customers will be invoiced on receipt of payment.
- Electronic transfer or direct deposit into our bank account, must be validated by an e-mailed copy of the transaction slip clearly identifying the learner(s), course and your company name to ensure that your payment is correctly allocated. Please include the reference number reflected on your quotation.

**Cancellations**

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**Payment**

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**Banking details:** Cement & Concrete SA    Swift code: SBZAZAJJ    Account No: 202 493 784  
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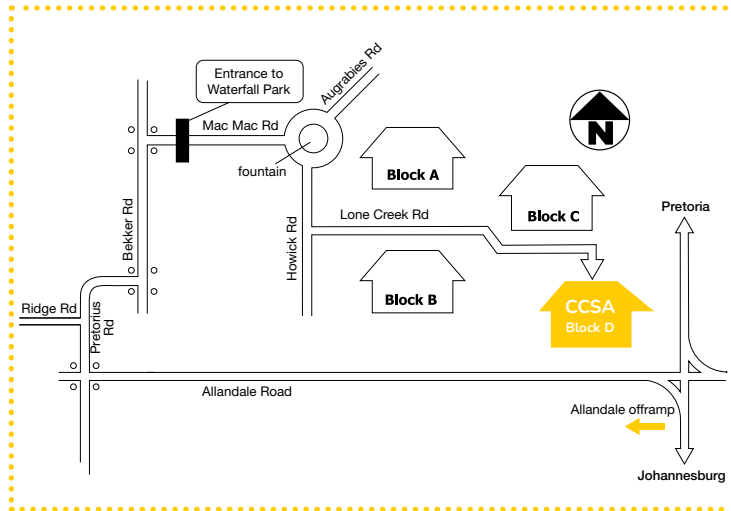


# MAPS

## JOHANNESBURG (not to scale)

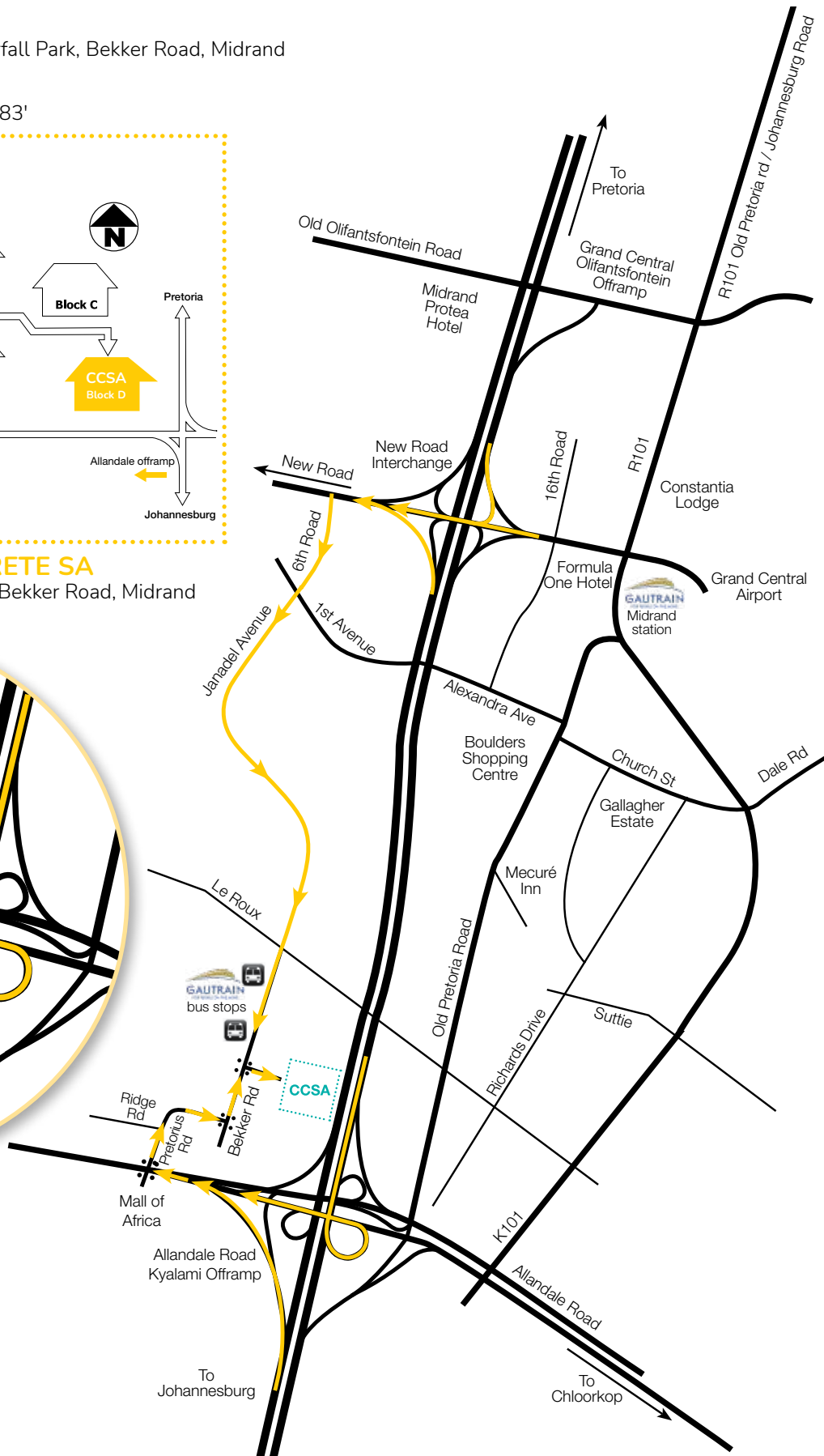
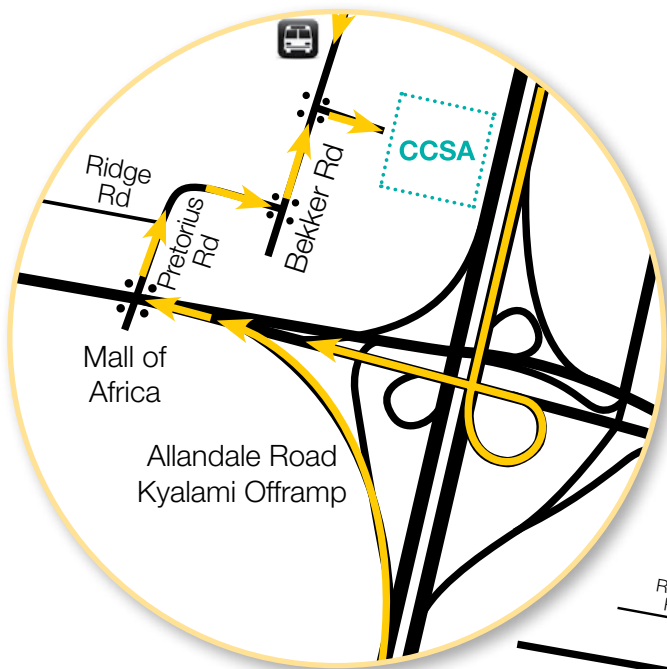
Waterfall Park, Midrand  
 Block D, Building 10, Lone Creek, Waterfall Park, Bekker Road, Midrand  
 Tel +27 (0)11 315-0300

GPS coordinates S 26° 0,724' E 28° 6,983'



### CEMENT & CONCRETE SA

Block D, Lone Creek, Waterfall Park, Bekker Road, Midrand



## DURBAN (not to scale)

**Premier Hotel (Pinetown), 65 Kings Rd**

Tel +27 (0)31 701-0130

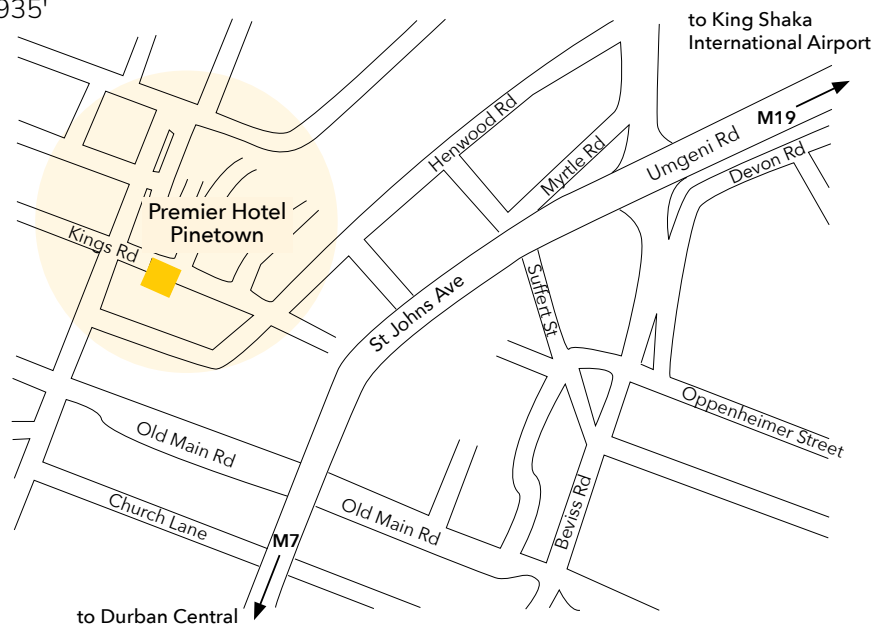
GPS coordinates S 29° 48,8819' E 30° 51,935'

### Directions from the Airport

Take N2 towards Durban.  
Take Umgeni Road off ramp, proceed straight to second set of traffic lights.  
Turn right and go up M19.  
This becomes St Johns Avenue.  
At third set of traffic lights, turn right into Nisbett Road.  
At stop turn left into Henwood Road.  
Turn right into Kings Road.  
Premier Hotel on right.

### Directions from Durban

Take the N3 From Durban.  
Take alternative Route to Pietermaritzburg, which is the left turning.  
Take the off ramp to the left sign posted M19 St Johns Avenue.  
Turn right at the traffic lights into St Johns Avenue.  
At the fifth set of traffic lights turn left into Nisbett Road.  
At the Stop sign turn left into Henwood Road.  
Turn first right into Kings Road.  
Travel two blocks,  
Premier Hotel on right.



## DURBAN (not to scale)

**CONTEST (for lab sessions)**

Unit 15, Alexander Park, 24 Alexander Rd, Westmead

Tel +27 (0)31 700-9394

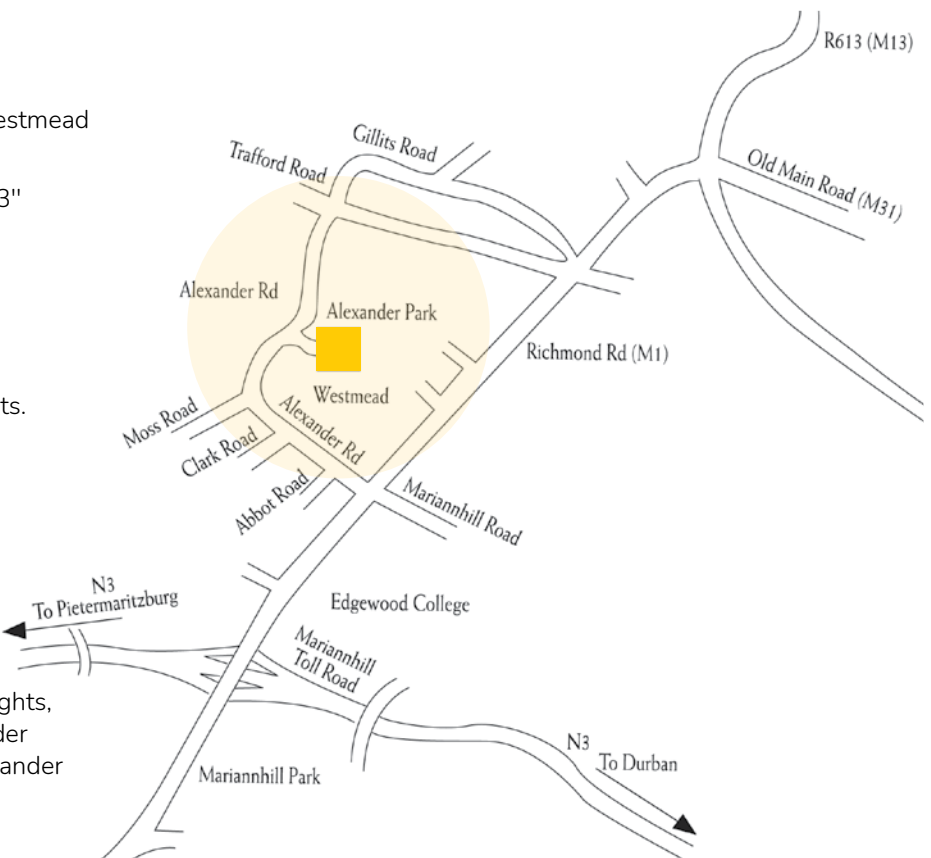
GPS coordinates S 29° 49,39' E 30° 50' 8,73"

### Directions from Durban

Take N3 freeway to Pietermaritzburg.  
Take Richmond Road/Marianhill off-ramp.  
Turn right into Richmond Road. Cross over bridge and pass first two sets of traffic lights.  
At third set of traffic lights, keep left and follow yield slipway into Alexander Road.  
Follow Alexander Road to Alexander Park on the right.

### Directions from Pietermaritzburg

Take N3 freeway to Durban. Pass toll plaza and take Marianhill/Richmond Road offramp. At traffic left, turn left into Richmond Road. Pass through first traffic lights, keep left and take left slipway into Alexander Road before next traffic lights. Follow Alexander Road to Alexander Park on the right.



## CAPE TOWN (not to scale)

### PPC Cement

Corner Chain Avenue and Montague Drive, Montague gardens, Industrial  
Tel +27 (0)21 550-2100

#### Directions from Cape Town

From Cape Town/Paarl N1: take the N7 north from the N1, stay in left lane and take next off-ramp to the left into Bosmansdam Road. Get into one of the right turn lanes and turn right into Montague Drive at the next traffic lights. Travel north through two sets of traffic lights and turn right into Chain Avenue at the intersection after the second set of lights. PPC is then on your left. There is a large concrete silo on the premises.

NB To access the N7 north from Cape Town you must take the Century City/Sable Road off-ramp which is approximately 1,5 km past the Koeberg Road Interchange. This service road takes you to the N7. There is no direct access to the N7 North from the N1 North.

- From the N2/Airport take the N7/Vanguard Drive exit and turn north on Vanguard Drive. Stay on Vanguard Drive past the casino and through Goodwood. It then changes to the N7 and passes over the N1. Then left into Bosmansdam Road and follow the directions in 1 above.
- From the N7 north, take the Bosmansdam Road off-ramp, turn right over the N7 and follow the directions in 1 above.
- from the Tableview/Parklands area take the R27 (West Coast Road) south. Turn left at Racecourse Road at the Paddocks Centre. Go over Koeberg Road and turn right into Montague Drive. Take the next turn left into Chain Avenue.







## CONTACTS

### **Kyriakos (Gary) Theodosiou**

**PrEng BSc(Eng) GDE, MICT**

Gary graduated from Wits University in 1978 and has 17 years experience in structural concrete, steel and timber design. During this time he worked for Keeve Steyn & Partners (now known as Goba), LSL incorporated (a company that specialises in materials handling), BKS incorporated and Anglo American where he was involved in several major reinforced/prestressed concrete and structural steel structural projects including Soccer City, the Chamber of Mines Engineering Building at Wits University, the Vaal Triangle Technikon, precooling towers and reservoir for Vaal Reefs 10 Shaft, Sadiola Gold Mine in Mali and TR5 Transfer house for the Taiwan Power company. Gary joined C&CI in December 1995. He has worked in the Technical department, the School of Concrete Technology and headed the structural marketing focus department until C&CI closed in April 2013.

### **John Roxburgh**

**BSc (Building Science), MICT**

After completing his Building Science degree, John worked for LTA building where he gained extensive experience on various contracts. Before joining C&CI in 2009, John spent six years as a technical manager in the brick and block manufacturing industry, a job in which he travelled widely through Africa doing technical training. John was awarded his Advanced Concrete Technology diploma in 2013. He has a keen interest in all facets of the concrete industry and is especially passionate about concrete technology education.

### **Matthews Magwaza**

**Lecturer**

Matthews Magwaza was introduced to world of cement and concrete when he joined Cement Distributors of South Africa where he remained for seven years. He joined the C&CI in 1996 where he contributed to the training laboratory and presented onsite training. He has the ability to speak five African languages, which assists learners that do not have English as their first language.



## LECTURERS

**Gary Theodosiou**

gary.theodosiou@cemcon-sa.org.za

**John Roxburgh**

john.roxburgh@cemcon-sa.org.za

**Matthews Magwaza**

matthews.magwaza@cemcon-sa.org.za

## SCT ADMINISTRATOR

**Rennisha Sewnarain**

rennisha.sewnarain@cemcon-sa.org.za

## COURSE ORGANISER

**Eldene Magill**

eldene.magill@cemcon-sa.org.za



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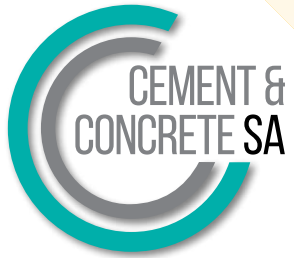



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