

Pavement Rehabilitation and Maintenance

CPD: 3 credits

A three-day course aimed at helping candidates to become aware of the **importance of road rehabilitation and maintenance** and what the lack thereof has on the life span of roads and the costs.



By attending this course, delegates will gain insight into:

- The various road management and maintenance options, standards relating to road construction and the importance of ongoing maintenance.
- The wide range of maintenance options and their appropriateness and cost effective application.
- The various pavement materials, road surface types and materials design.
- Principles of practical pavement design and philosophy.
- Pavement assessment, investigation and analysis.

Benefits include:

- Participation in an interactive, state of the art accelerated learning workshop.
- Various practical activities to ensure that attendees are equipped to handle projects effectively when back in the workplace.
- A comprehensive document that will serve as a reference manual.
- CPD points.

COURSE TRAINER

Theuns Eloff B.Eng (Civil)

COURSE DATES & VENUES 2011

- 11 – 13 April 2011 : Durban
- 18 – 20 July 2011 : Johannesburg
- 15 – 17 August 2011 : Port Elizabeth
- 10 – 12 October 2011 : Cape Town

REGISTRATION

For registration, please contact Dawn on dhermanus@saice.org.za and for details of the course, please contact Marthelene on saice@ally.co.za or visit www.saice.org.za for further information.

WHO SHOULD ATTEND

The course is aimed at assisting graduates apply their theoretical training in practice. It is therefore recommended for:

- Staff working in the industry with very little experience.
- Candidate Engineers, Technologists & Technicians.
- Office staff and relevant individuals requiring knowledge of pavement rehabilitation and maintenance.
- Experienced personnel looking for a refresher in pavement rehabilitation and maintenance may also wish to attend.

COURSE CONTENT

A comprehensive manual covers all aspects of pavement rehabilitation and maintenance and is structured as follows:

INTRODUCTION

- Terminology

ROAD SAFETY AND OSH Act

ROAD MANAGEMENT AND MAINTENANCE

- Asset management
- Management levels
- Pavement management systems
- Maintenance types

PAVEMENT MATERIALS, IDENTIFICATION AND BASIC PRINCIPALS

- Technical and theoretical
- Types of materials

PRINCIPLES OF PRACTICAL PAVEMENT DESIGN AND PHILOSOPHY

- Fundamental principles
- Design considerations
- Pavement types

ROAD SURFACE TYPES AND MATERIALS DESIGN

- Surface seals
- Asphalt
- Crack seal
- Stabilisation

PAVEMENT ASSESSMENT, INVESTIGATION AND ANALYSIS

- Field investigations
- Compilation of data
- Analysis
- Economic analysis

DISTRESS IDENTIFICATION TREATMENTS AND REPAIRS

- Distress types
- Treatment methods and options

REHABILITATION AND RECONSTRUCTION

- Methods and options

DRAINAGE AND MAINTENANCE OF STRUCTURES

- Drainage options
- Routine maintenance

ABOUT YOUR FACILITATOR

Theuns Eloff completed his degree at the Rand Afrikaans University in B.Ing. (Civil) and started his Engineering career at Raubex Construction as a civil contractor. Initially he was involved in rehabilitation and construction of roads and later when working for Road Mac Surfacing, he became the site agent responsible for rehabilitating the N2 between Port Shepstone and Umtentweni. Theuns then moved into major earthworks, and was involved in the construction of dams and open pit mines. When employed by Patula Construction, Theuns became involved in many road rehabilitation contracts across Gauteng and the North West, various water reticulation projects and new road construction. Much of his work involved major rehabilitation, reconstruction and resurfacing.

In 2007, Theuns started Construction Consultant where he has been involved as Project/Contracts Manager for a number of clients on various projects. He also offers support to emerging contractors and enjoys training engineering personnel in his field of expertise. Theuns has become an accomplished trainer, with young people enthusing over his courses.

FEES (includes VAT) Fees include course manual, tea and lunch

- R5 000 for SAICE Members
- R5 800 for Non-SAICE Members

In line with the Academy's philosophy, presenters are available to offer support to candidates after the course. Please contact us to find out more about these support options.

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| Course and assignment to be completed after the course and submitted to the presenter for evaluation (additional 2 hours for assessment and input) | R5 000 or R5 800 + R1 000 |
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OR

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| Course and workplace support after the course (additional 5 hours including travel). This option is only available in Gauteng at present. Instead of assisting and advising candidates with a hypothetical assignment, the presenter may be used to assist the candidate with a 'real live project' to ensure that what has been learnt is correctly applied in practice. | R5 000 or R5 800 + R2 500 Plus R 4.20/km |
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The Candidate Academy's philosophy is to support candidates on their road to registration with ECSA, by helping them through the transition from theoretical training to the 'how' of engineering projects and processes. The Academy offers practical, hands-on training relevant to experiences in the workplace.

