



cooperative
governance

Department:
Cooperative Governance
REPUBLIC OF SOUTH AFRICA

MUNICIPAL INFRASTRUCTURE
SUPPORT AGENT (MISA)



CPD 2 credits (ECSA)

Getting Acquainted with the Management and Rehabilitation Design of Urban Road Pavements

The Municipal Infrastructure Support Agent (MISA) in partnership with SAICE Professional Development & Projects (SAICE-PDP) invites you to attend this 2-day course to assist attendees with the management and rehabilitation design of urban road pavements.



Attend this course and:

- Learn about road pavement deterioration and pavement life cycles
- Refresh your knowledge of road pavement materials and pavement design basics
- Understand how to optimally manage urban road pavements
- Learn about road pavement rehabilitation design processes and principles
- Master the DCP method for pavement rehabilitation design
- Understand the different management and rehabilitation design requirements of urban road pavements vis-à-vis those of rural and inter-urban roads

Benefits include:

- Participation in an interactive workshop
- A comprehensive document that will serve as a reference manual
- CPD Credits (ECSA)

Presenter:

Philip du Plessis, Pr Eng, FIMESA

COURSE SCHEDULE

Venue:
Dates:
Time:

REGISTRATION

To register, visit www.saicepdp.org
For more details contact Nompumelelo Nyaba:
Email nompumelelo@saicepdp.org /
Tel: 011 476 4100

WHO SHOULD ATTEND

The course helps municipal attendees to apply their theoretical training in practice. It is therefore recommended for:

- Municipal engineers, technologists and technicians
- Staff involved in the management and rehabilitation design of urban road pavements
- Staff employed in local government and involved in, or about to become involved in the field
- Experienced personnel looking for a refresher in the management and rehabilitation design of urban road pavements

COURSE OUTLINE

WHAT TO BRING TO THE COURSE

DAY 1

- Road Pavement Deterioration and Road construction maintenance
- Road Pavement Types and the Composition of flexible pavements
- Pavement Materials and their properties
- The Load Equivalence principles
- Pavement Design Principles
- Asset management basics
- Pavement Management Systems for the urban environment
- Condition assessments and the calculation of Visual Condition Index (VCI) and other indexes
- Compiling rehabilitation and resurfacing project lists

DAY 2

- Project level assessment and investigation
- DCP Tests
- Design Traffic investigations and calculations
- Rehabilitation design methods
- DCP design method, including Pavement Balance
- Remedial measures
- Present Worth of Costs analysis



- Pencil and eraser
- Scale Ruler
- Scientific calculator

For **online** courses, it is recommended to have the following installed on your computer:

- MS Excel
- The Zoom app

ABOUT YOUR FACILITATOR

Philip du Plessis has a BSc. Eng. (Civil) and B Eng Honours (Transportation) degree from the University of Pretoria.

He worked in the municipal engineering field for 27 years specializing roads, stormwater and transportation functions in the Springs and Ekurhuleni Metro municipalities.

Philip joined the Springs Town Council in 1990 as Assistant Town Engineer and became the Springs Town Engineer in 1995. After the establishment of the Ekurhuleni Metro, he served as a Regional Director for Roads and Stormwater until 2013 whereafter he joined the Public Transport Department to manage the planning, design and construction of the first phase of the Ekurhuleni BRT Infrastructure.

Prior to joining the Springs Town Council he worked for the Transvaal Roads Department, the last five years thereof overseeing road construction and maintenance work in the Benoni region which covers the current southern Gauteng.

Since leaving municipal service in 2017, he has conducted sub-consulting work and served as a mentor for SAICE-PDP's municipal candidate technicians, technologists and engineers towards their professional registration with ECSA. He also did extensive work for Infrastructure South Africa where he assessed business plans for mega projects as a member of the Transport Technical Working Group.

Philip is registered with ECSA as a Professional Engineer and is a Fellow of IMESA.



SAICE-PDP's Municipal Academy was established to support practitioners employed in local government with applying theoretical knowledge and relevant legislation in practice.

**municipal
academy**
the road to service delivery



MISA's mandate is to provide technical support and advice to municipalities, whilst strengthening their capacity, for effective infrastructure planning, delivery, operations and maintenance.