



**cooperative
governance**

Department:
Cooperative Governance
REPUBLIC OF SOUTH AFRICA

**MUNICIPAL INFRASTRUCTURE
SUPPORT AGENT (MISA)**



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SUPPORT AGENT**

Today, Creating a Better Tomorrow

CPD 2 credits (ECSA)

Getting Acquainted with Road Construction and Maintenance

The Municipal Infrastructure Support Agent (MISA) in partnership with SAICE Professional Development & Projects (SAICE-PDP) invites you to attend this 2-day course which aims to help attendees who are either entering or currently working in the area of road construction and maintenance.



Attend this course and learn about:

- Various aspects of road construction and maintenance from commencement to completion of building a road and the importance of maintenance thereafter
- Understanding the technical elements, quality assurance, systems, processes, new technology and sustainability
- Understanding the different types of surfaces used in road construction, defects, rehabilitation and materials for construction and maintenance

Benefits include:

- Participation in an interactive workshop
- Various practical activities to equip attendees to handle projects when back in the workplace
- A comprehensive course document that will serve as a reference manual
- 2 CPD credits (ECSA)

Presenter:

Theuns Eloff BEng (Civil)

COURSE SCHEDULE

Venue:

Dates:

Time:

REGISTRATION

To register: send us your authorization form

For more details contact Nompumelelo Nyaba:

Email nompumeleo@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:

- Engineers, Technicians and Technologists
- Project Managers and PMU personnel
- Road Maintenance Managers, Supervisors and Foremen
- SCM Practitioners
- Staff with very little experience or who are about to become involved in road construction and maintenance projects

COURSE OUTLINE

INTRODUCTION TO ROADS

- Preconditions for road building and maintenance
- List of TRH, TMH and UTG documents

ROAD FUNDAMENTALS

- Role-players in civil projects in South Africa
- Design process and considerations

ROAD MANAGEMENT

- Asset management and PMS
- The laffer curve and maintenance types

PAVEMENT ASSESSMENTS AND INVESTIGATIONS

- Analysis and field investigation
- Compilation of data

TYPES OF PLANT AND EQUIPMENT

- Small plant and tools
- Earthmoving equipment

TECHNICAL ASPECTS OF MATERIAL AND ROADS

- Terminology and standard units
- Types of materials for construction and maintenance
- Basic material mechanics, quality assurance and testing

THE CONSTRUCTION PROCESS – EXECUTION

- Visual assessment and reading plans and drawings
- Clearing, grubbing and services
- Earthworks and layer works
- Confined and restricted areas
- Water handling and subsoil drains

SURFACING OF ROADS

- Reseal and surface seals

DISTRESS IDENTIFICATION AND REPAIRS

- Distress types, cracks and crack sealing
- Potholes, patches and rigid defects

ROAD FURNISHING AND ANCILLARY WORKS

ROAD SAFETY AND OHS ACT

WHAT TO BRING TO THE COURSE

- Calculator

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

- MS Excel
- The Zoom app

ABOUT YOUR FACILITATOR

Theuns Eloff completed his BEng (Civil) degree at UJ (RAU) and started his engineering career as a civil contractor. He was involved in the construction, rehabilitation and resurfacing of roads.

Theuns also has extensive experience in major earthworks, construction of dams, open pit mines and contract management.



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.