



**cooperative
governance**

Department:
Cooperative Governance
REPUBLIC OF SOUTH AFRICA

**MUNICIPAL INFRASTRUCTURE
SUPPORT AGENT (MISA)**



CPD 2 credits (ECSA)

Understanding the technical implications of **developing and operating a landfill**

The Municipal Infrastructure Support Agent (MISA) in partnership with SAICE Professional Development & Projects (SAICE-PDP) invites you to attend this 2-day course **which covers the complexities associated with developing and operating a landfill.**



Attend this course and learn about:

- The essential infrastructure in a landfill
- How to optimise airspace
- Good practice in landfill management
- How to manage risk
- What should be covered when scoping the design of a new site

Benefits include:

- Participation in an interactive workshop
- Various practical activities and discussions
- A comprehensive manual including internal audit templates
- 2 CPD credits (ECSA)

Presenter:

Ken Bromfield Pr Eng, Pr CPM

<p>COURSE SCHEDULE</p> <p>Venue:</p> <p>Dates:</p> <p>Time:</p> <p>REGISTRATION</p> <p>To register, visit www.saicepdp.org</p> <p>For more details contact Nompumelelo Nyaba: Email nompumelelo@saicepdp.org</p> <p>Tel: 011 476 4100</p>	<p>WHO SHOULD ATTEND</p> <p>The course helps attendees understand the complexities of landfill planning, design, operations and management, and is recommended for:</p> <ul style="list-style-type: none"> ▪ Landfill managers and supervisors ▪ Environmental and financial managers in waste ▪ Employees responsible for daily landfill operation ▪ Engineers, technologists and technicians responsible for design or landfill oversight ▪ Waste Audit Committee members ▪ Anyone else interested in or involved in developing and operating a landfill.
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COURSE OUTLINE

WHAT TO BRING TO THE COURSE

SESSION 0: LANDFILL 101

- Understanding waste
- Why landfills
- Understanding the basic elements of a landfill

SESSION 1: WASTE MANAGEMENT HISTORY, LEGISLATION AND CLASSIFICATION

- Waste management history
- The South African context
- Engineered landfill sites
- RSA legislation
- Classification of waste and landfills

SESSION 2: CHOOSING THE WASTE DISPOSAL SYSTEM

- Waste disposal options

SESSION 3: MAXIMISING AIRSPACE

- What is airspace
- Calculating airspace
- How to optimise airspace

SESSION 4: OUTSIDE AND AROUND A LANDFILL

- Site appearance and infrastructure
- Screening and landscaping
- Access routes and control
- Managing nuisances

SESSION 5: INSIDE A LANDFILL

- The Site Operational Plan
- Buildings and structures
- The weighbridge
- The laboratory
- Cells, cover and capping
- Machines, equipment and people
- Recycling
- Water balance
- Leachate and gas
- Managing nuisances
- Health and safety
- The Environmental Management Plan
- The Emergency Management Plan

SESSION 6: THE PRACTISE OF GOOD LANDFILL MANAGEMENT

- Acceptable wastes
- Staffing
- Access control
- Routing
- Recycling and salvaging
- Stormwater management
- Leachate management
- Landfill gas management
- Rehabilitation and landscaping
- Stakeholder engagement

SESSION 7: RISK MANAGEMENT, EMERGENCY MANAGEMENT PLAN AND CRISIS RESPONSE AND COMMUNICATION PLAN

- Determining and rating risks
- The Risk Management Plan
- Emergency and crisis response
- The Crisis Communication Plan

SESSION 8: TECHNICAL CONSIDERATIONS FOR SCOPING, DESIGNING AND LICENCING LANDFILLS

- Integrated planning
- Detailed site investigation
- Detailed design
- Containment barriers
- The leachate management system
- Gas control systems



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.