

SHORT COURSE: ADVANCED GEOTECHNICS

DEPARTMENT OF CIVIL ENGINEERING • 12-16 MAY 2025

COURSE COORDINATOR

Prof Peter Day

CO-PRESENTER

Prof Nico de Koker

FEES

3.5 day course: R7500.00

ECSA CPD POINTS

3.5 points

ONLY DIGITAL
CERTIFICATES ISSUED

LANGUAGE

The course will be presented
in English.

CONTACT

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OBJECTIVES

This 3.5 day CPD course is the first part of a 5 day course on Advanced Geotechnics for Masters students at Stellenbosch University.

The objective of the CPD course is to provide participants with an understanding of:

- Basic reliability concepts including an introduction to Monte Carlo simulation and First Order Reliability Methods.
- Provision for safety in working load design, Limit state design and reliability - based design.
- Limit states design of geotechnical structures using SANS 10160-5.
- Application of First Order Reliability Methods (FORM) in geotechnical design.

COURSE OUTCOMES

At the end of the course the participants should:

- Understand basic reliability concepts.
- Appreciate the need for accounting for geotechnical uncertainties by using limit states design or reliability - based design methods.
- Understand the semi - probabilistic nature of limit states design embodied in SANS 10160.
- Be able to apply principles of limit states design as given in SANS 10160-5 to spread footings, piles and retaining structures.
- Be able to apply First Order Reliability methods to geotechnical design problems, including the use of response surface methods.

COURSE ARRANGEMENTS

This course will be presented in-person at Stellenbosch University - venue details will be forwarded to registered delegates once payment has been received.

[CLICK HERE TO REGISTER](#)

REGISTRATIONS

Registrations close on:
02 May 2025

All payments are due by:
09 May 2025

Payment confirms registration.

