

Foundation Design

A Practical Perspective



This course will be presented online

12 - 23 April 2021



Presented by: Prof Peter Day

Adjunct Professor of Geotechnical Engineering and Consultant, Jones & Wagener

Course Objectives

This course is presented from the perspective of a practicing geotechnical engineer.

The objective of this course is to provide a practical understanding of:

- ◆ Extending the theories of bearing capacity and settlement as taught at undergraduate level to practical design of foundations
- ◆ Obtaining and selecting design parameters from site investigation data
- ◆ Selection of appropriate foundation types for various types of development and soil profiles
- ◆ Design of spread footings, piled foundations and raft foundations
- ◆ Principles of limit states design in geotechnical Engineering
- ◆ Applicable standards and statutory requirements.

Course Outcomes

At the end of the course, the participants should be able to:

- ◆ Define and specify site investigation requirements for types of development and soil conditions
- ◆ Select appropriate methods of design for common types of foundations
- ◆ Determine the load bearing capacity and settlement of foundations
- ◆ Better understand practical issues that need to be considered in foundation design
- ◆ Identify and conform to applicable standards and statutory requirements.

CPD: 5 **Course Fees: R8000.00**

[Register here](#)

Closing date for registrations: 1 April 2021

Course Format

The course will be presented online using Microsoft Teams. Course material will be presented each week-day from 08:30—13:00. Online practical exercises will be set each afternoon for discussion at the start of the next day's session.

Course Assessment

All participants are expected to complete the daily homework as part of the requirements for satisfactory attendance of the course.

A design assignment is given to Postgraduate students after the course. Participants attending the course for non-degree purposes are also welcome to submit the assignment.

Course Material

Reference material, presentations and background reading will be distributed electronically to all participants to the extent permitted by copyright.

Payment Instructions

Payment is due by 7 April 2021. Access to online content will only be granted once payment has been received.

Enquiries Janine

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