



## Introduction to Unsaturated Soil Mechanics

Presented by the Department of Civil Engineering, University of Pretoria

7 - 8 February 2022

2 ECSA CPD Points

The **Introduction to Unsaturated Soil Mechanics** short course is a one-day course focusing on the theoretical framework and practical aspects of unsaturated soil mechanics in geotechnical engineering. The emphasis is on fundamental principles, stress state variables, steady-state and transient flows, soil-water characteristics, theory of shear strength and its measurement, soil stiffness, plastic and limit equilibrium analyses of earth pressures, slope stability and bearing capacity. Attention will be paid on how to extend classical saturated soil mechanics to encompass unsaturated soil behaviour. Engineering applications and the application of unsaturated soil mechanics in design are also discussed.

The aim of this course is to enable students, researchers and engineers to understand the fundamental principles and advanced concepts of unsaturated soil mechanics and their applications to geotechnical and geo-environmental engineering problems such as landfill cover systems, concrete block retaining walls, embankment, etc.

The course is presented by Dr Talia da Silva Burke. Talia is a senior lecturer at the University of Pretoria, and registered professional engineer. She completed her PhD at the University of Cambridge on a Gates Cambridge Scholarship where she researched the behaviour of geosynthetic-reinforced soils above voids. Talia has worked in consulting specialising in geo-environmental engineering with Jones & Wagener and as a Research Associate at the University of Cambridge researching piled foundations in expansive clays.

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*Shifting knowledge to insight*

# Introduction To Soil Mechanics Geotechnical Engineering

**R Sandford**



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