

IN SITU TESTING



Course Outline

The course will cover both the theory and the practice of various In situ testing techniques used on typical geotechnical projects. In addition the courses will consider the requirements of the current British Standards (Eurocodes).

In situ testing is an essential part of a well-planned ground investigation as it is arguably the best method for obtaining true geotechnical parameters. Tests obviously vary in complexity and appropriateness and should never be taken in isolation without an understanding of the likely ground conditions and geology. This course provides an overview of in situ tests used in common practice and some of the more specialist tests together with their advantages and limitations.

Course Contents

This course will look at the various methods used to obtain properties such as:

- Soil density
- Soil strength
- Permeability testing
- Packer testing

The course will consider tests such as:

- Standard Penetration
- Borehole Penetration Vane
- Falling Weight Deflectometer
- Plate Bearing
- Sand & Water Replacement
- Nuclear and Non-Nuclear Density Gauge
- Pocket Penetrometer
- Hand Shear Vane
- Dynamic Probing
- TRL Probe
- CBR's

Summary

At the end of the course the delegates should be able to:

- Understand the practical application of In situ tests
- Understand the limitations of tests
- Understand why and which in situ testing would be most appropriate
- Have an appreciation of how to schedule in situ tests
- Understand why it is important to determine an appropriate and structured testing regime
- Recognize accuracy of results
- Have an appreciation of what the results mean



Who should attend?

This course is aimed at all Geologists, Engineers and Field Technicians who are or may become involved with any form of on-site testing. This course will greatly enhance understanding of the types of geotechnical in situ tests and the subsequent testing processes.

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