

# Geotechnical Laboratory Testing Awareness Course



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## Introduction

The course comprises a comprehensive one day overview of the complete process involved in Geotechnical Laboratory Testing from sampling through to interpretation.

The course provides guidance on sampling requirements including sample types and sizes and revised regimes to comply with Eurocode 7 and BS 1377. The influence of sampling methods and storage will also be considered with respect to the parameters which may be obtained. During the day some typical laboratory testing equipment will be used to carry out tests and to give a greater understanding of how the tests are conducted. Practical examples will be carried out to enhance understanding.



## Course Content

Through the day we shall be looking at the tests often specified, consider the information required by the laboratory to carry out the tests, how the results are calculated and what to expect and look for in the results.

The tests considered will include:-

- ✓ Classification tests
- ✓ Earthworks testing
- ✓ Strength testing
- ✓ Settlement and Permeability testing
- ✓ Basic chemical testing for soil properties
- ✓ Specialist testing

The relationship of various parameters with each other will also be studied.

The afternoon session will finish with a practical exercise on scheduling testing.

## Summary

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

- ✓ identify appropriate samples for particular tests;
- ✓ understand the limitations of tests;
- ✓ have an appreciation of how to schedule;
- ✓ understand why it is important to determine an appropriate and structured testing regime;
- ✓ and have an appreciation of what the results mean and how they are obtained.

## Who should attend ?

*A must for all Engineers and Field Technicians who are or may become involved with sampling, specifying, scheduling and interpreting laboratory testing. This course will greatly enhance understanding of the geotechnical laboratory testing process and typical tests performed.*

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