

EARTHWORKS DESIGN AND CONSTRUCTION



Course Outline

This one day geotechnical training course will provide designers, contractors and clients with a general overview of materials sourcing and selection for the design and construction of earthworks.

Soil and rock comprise the majority of materials used on construction sites and can be a major cause of delays and litigation when poorly designed or constructed.

Earthworks design and construction requires an understanding of the following areas: Soil and rock behaviour in the subgrade to the earthworks; soil and rock behaviour in the proposed earthworks; the design and specification of the proposed earthworks; the construction of the proposed earthworks and verification that they comply with the specification.



Course Contents

- Engineering behaviour of soil and rock:
 - Shear strength of soils and rocks
 - Bearing capacity
 - Permeability
 - Settlement and pore pressures
 - Slope stability
 - Durability
- Site investigation, sampling and field/laboratory testing
- Classification of materials for use in the earthworks
- Earthworks specification:
 - End product, method and performance specifications
 - Highways England specification (used for most construction earthworks in the UK)
 - Environment Agency specification for landfill design
- Earthworks construction and testing and interpretation of test results
- Cuttings and embankments



Summary

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

- Understand how earthworks materials behave
- Have an appreciation of the main earthworks specifications in general use in UK construction
- Understand earthworks construction

Who should attend?

The course is aimed at technical staff with first degrees in civil engineering, construction, geology and related subjects; it will also be useful to non-technical staff who wish to gain an appreciation of the various factors involved in earthworks design and construction.

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