

Geotechnical Foundation Design



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Introduction

This one day course will provide a general overview of foundation design. It will include an assessment of the use and choice of shallow foundations and piles. It will cover the derivation of bearing capacity formula and their use. Exercises will be carried out to calculate the working loads and settlement of simple foundations. The methods used to calculate these will be in accordance with those described in Eurocode. The course will introduce various methods available to improve the ground when to enable shallow foundations to be used in poorer ground. A brief overview of pile foundations will be made which will also include a calculation of pile working loads in accordance with Eurocode.

This course will give a sound first look at foundations for engineers who may have only a limited knowledge of how to design a foundation.



Course Content

The course will look at how information is obtained and then used to provide a design for simple shallow foundations. It will look at the derivation of the formula used for basic foundation design.

The use of different methods of ground improvement which will enable the use of shallow foundation in poor ground are discussed These include:-

- Preloading
 - With drains
- Vibro compaction
- Vibro replacement
- Vibro concreted columns
- Dynamic consolidation
- Grouting

Various pile types are looked at and a basic design to Eurocode will be made.

This course will include practical exercises using the methods defined in Eurocode.

Equip Training Limited

The Drilling Academy™

The Paddocks
Home Farm Offices
The Upton Estate
Banbury
Oxfordshire
OX15 6HU

Tel: 01295 670990
Fax: 01295 678232
Email: info@equipetraining.co.uk

Web: www.equipetraining.co.uk

Course Arrangements

This full day course will be run from the Paddocks. Engineers attending will be able to count this towards their CPD programme.

Who should attend ?

This course is intended for engineers, geologists, technicians and clients who may recommend the use of anchor systems or those who wish to widen their , specify, supervise or carry out Site Investigations.

Real Experience for Real Solutions