SLOPE STABILITY DESIGN

Course Outline

This one day course will provide a general overview of slope stability design for geotechnical practitioners and engineers.

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 slope stability design. The mathematics in the worked examples is not complicated – the aim of the course is to give attendees an understanding of the physics of the problem, not a course in mathematics.

The course will look at how information is obtained and then used to provide a design for stable slopes. It will also look at the derivation of the formulae used for slope design.

Course Contents

- Shear strength of soils and rocks
- EC7 design: Partial Factors and Limit State Design of slopes
- Short term and long term conditions in cuttings and embankments
- Plane translational slides
- Rotational slides
- Factor of safety
- Computer methods
- Rock slopes
  - plane failure
  - wedge failure
  - curved failure
- Worked examples

Summary

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

- Understand how soil and rock slopes fail
- Have an appreciation of the philosophy of EC7 design
- Have a basic understanding of the analysis and design of slopes in soils and rocks.

Who should attend?

This course will give a practical introduction to slope design for geotechnical practitioners and engineers who may have only a limited knowledge of how to choose and design a slope.

For more information, contact Equipe Training:

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