

# ROTARY DRILLING AWARENESS FOR ENGINEERS



## Course Outline

This one day course provides an in depth insight into the use of rotary drilling techniques within geotechnics. The course will look at the optimum techniques to obtain the information or parameters required or to maintain hole integrity for installations. The content is equally relevant for rotary drilling for ground investigations, geothermal wells and water wells.

The course is a unique opportunity to learn about drilling techniques as well as assessing and observing rigs in operation. The content will include drilling techniques and equipment, advantages and limitations and new technologies as well as the legislative requirements which impact on rotary drilling. The course will comprise some theory in the classroom but will also be based outside with rotary drill rigs in action.

## Course Contents

- Update on current British Standards in relation to drilling
- Rotary Drilling Techniques and Equipment
  - o Percussive inc. Window Sampling and Down The Hole Hammer
  - o Open Holing
  - o Coring – conventional and wireline
- Advantages and Limitations of the techniques
- New techniques and innovations
  - o Sonic (Rota-Sonic)
  - o Flush mediums including use of polymers
- Health and Safety – PUWER & LOLER inc. Rig Guarding
- Health and Safety Audit on Drill Rigs
- Environmental Issues

The course will include practical demonstrations and a hands-on audit of the Equipe rotary rig.



## Summary

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

- Have an appreciation of different rotary drilling techniques and equipment
- Understand the advantages and limitations of different techniques
- Ask the right questions to the drill crew
- Check the safety and environmental compliance of the rig
- Understand the documentation to be checked
- Carry out a simple rig audit

## Who should attend?

This course is a must for geotechnical practitioners supervising rotary drilling operations so that they can understand the drilling activity, maximise core recovery and quality of the work and interact more knowledgeably with the drill crew.

For more information, contact Equipe Training:

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