

EFFECTIVE SITE INVESTIGATION

Overview:

This training course has been carefully developed to provide clarity and confidence to civil and structural engineers when making geotechnical decisions. It gives clear guidance on getting good geotechnical data appropriate to your design, understanding the balance between risk, cost and certainty and how to avoid the most common causes of time and cost overruns on your projects.

Benefits:

This short course will teach you how to competently gain the required data, in a timely manner and to a degree which is adequate and appropriate to each stage of design and development. In this way risk and liability are minimised, the potential for economic and safe design is maximised and the project is more likely to be completed on time and within budget.

Course outcomes:

- Specify the right Ground Investigation
- Ensure you get the maximum geotechnical information from the investigation
- Identify the main geotechnical risk

Course objectives:

- Suitability: Are the site and surroundings suitable for the project?
- Design: Obtain all the design parameters necessary for the works.
- Construction: Are there any potential ground or ground water conditions that would affect the construction?
- Contamination: Any possibilities of the site being contaminated?
- Materials: Are there any materials available on site, what quantity and quality?
- Effect of changes: How will the design affect adjacent properties and the ground water?

Course Outline:

1. Purpose and objectives of site investigations
2. Site investigation processes
3. Enabling Factors
4. Tactics
5. Transferring Data
6. Selecting appropriate geotechnical and geoenvironmental professionals, site investigation contractors, and specialist test houses
7. Suggested content for Desk study report
8. Survey techniques / checklist
9. Advantages and Disadvantages of different methods of exploration
10. Geotechnical codes and standards – mandatory requirements
11. Requirements for site investigations for piling
12. Site investigations for tunnelling and pipe jacking
13. Typical content for writing factual reports

Target Audience: Aimed at Engineers and Technicians at Technical and Managerial levels, who are involved in the specific investigations in Civil Engineering Projects - Planning, Execution and Project Management.

Duration: 1-day short course (earn 1 CPD point)

Facilitator: TBC