Course Title	G19/306: Slope Stability Design to Eurocode 7
Duration	1 day
Delivery Mode	Full time
Cost	£250.00 + VAT per delegate
Delegate Nos.	6 to 10
Intended Audience	Engineers with some geotechnical design experience wanting to develop their understanding and skills in relation to the basis and application of EC7 to soil slope stability
Objectives	At the end of this course delegates should have: • Reviewed the analytical and design principles for soil slopes • Developed their knowledge and understanding of the basis of the Eurocodes and Eurocode 7 • Applied Eurocode 7 requirements to the design of soil slopes
Course Description	The Eurocodes are an integrated set of standards for the design of structures and civil engineering projects across Europe. These are complemented by nationally determined parameters set out in National Annex documents for each state. Eurocode 7 is the geotechnical code and it requires design to be largely based around limit states and the use of partial factors. This represents a major change to previous British Standard approaches for geotechnics that relied typically on global factors of safety. This one-day course will provide delegates with the opportunity to learn how to apply EC7 to the design of soil slopes. Whilst the course will begin with a refresher on the various forms of slope failure and basic soil mechanics principles relevant to slope stability, the main focus of the day will be on the Eurocodes and their use in practice. Delegates will be guided through EC7 and guided examples will be used to provide delegates with the opportunity to apply their learning. The course will close with a discussion session on the practicalities of slope stability engineering. The course will be taught via a series of short lectures followed by discussions and tutorial questions to reinforce the learning. Guided examples will be used to provide delegates with the opportunity to apply their learning.
Course Tutor	The tutor will be Dr Andy Goodwin, a chartered engineer with over 30 years' experience in industry and academia. He is a geotechnical specialist, with a thorough knowledge of both the theory and practicalities of geotechnical engineering.
Indicative Content	The indicative content comprises the following: • Brief reprise of types and causes of slope failure, and the importance of the ground model • Refresher discussion on basic soil mechanics including principles of soil strength & stiffness, and design principles for soil slopes • Overview of the Eurocodes • Basis of geotechnical design to EC7 • Selection of geotechnical data and parameters • Design of slopes by calculation, with examples • Design reporting and requirements for supervision of construction, monitoring and maintenance • Group discussion on slope stability engineering