



HEALTH, SAFETY AND SECURITY TRAINING

Excavation, Trenching and Ground Works Safety

3 day course

Classroom, online or in-house

Course overview

A cubic metre of soil weighs more than a tonne, and a trench collapse gives no warning and leaves no time to climb out. This course covers working in and around excavations. Delegates work through soil types and the behaviour of each, the causes of collapse including surcharge, vibration and water, and the protective systems available: battering, benching, shoring and shielding. Underground services are covered in full, from records and scanning through safe digging practice to what to do on a strike. Access, edge protection and vehicle movements follow. Atmospheric hazards and water ingress are addressed. The course closes on inspection, on permits and on emergency response to a collapse.

What you will learn

- Identify soil types and predict their behaviour
- Recognise the causes of collapse including surcharge, vibration and water
- Select battering, benching, shoring or shielding appropriately
- Locate underground services and apply safe digging practice
- Respond correctly to a service strike
- Control access, edge protection and vehicle movements
- Inspect an excavation and respond to a collapse

Who should attend

- Site supervisors and construction managers
- Excavator operators and ground works teams
- Utilities and pipeline crews
- Safety officers on civil and construction sites
- Engineers designing and inspecting excavations

Course outline

- 01 A tonne per cubic metre and no warning
- 02 Soil types and behaviour
- 03 Causes of collapse
- 04 Battering, benching, shoring and shielding
- 05 Underground services and safe digging
- 06 Service strikes and response
- 07 Access, edges and vehicle movements
- 08 Water, atmosphere, inspection and emergency response

Upcoming dates

Dates	Venue	Format	Fee per delegate
12 to 14 October 2026	Harare, Zimbabwe	Classroom	USD 995
21 to 23 October 2026	Online	Online	R6,500
28 to 30 October 2026	Kigali, Rwanda	Classroom	USD 995
2 to 4 November 2026	Johannesburg, South Africa	Classroom	R14,950



Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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