



POWER AND ELECTRICAL TRAINING

High and Medium Voltage Underground Cables

5 day course

Classroom, online or in-house

Course overview

An underground cable fault is invisible, expensive and slow to repair, and most are caused during installation rather than by the cable itself. This course covers specification through to fault location. Delegates work through cable construction and insulation types, sizing against current rating and the installation conditions that derate it, and the specification of joints and terminations. Installation practice receives detailed attention, including bending radius, pulling tension and the handling errors that seed a fault years later. Commissioning tests and partial discharge measurement are covered, along with jointing and termination technique. The course closes on fault location methods and the repair decision on an ageing circuit.

What you will learn

- Specify cable construction and insulation type for a duty
- Size cable against current rating and installation derating factors
- Specify joints and terminations appropriate to the system
- Apply installation practice including bending radius and pulling tension
- Carry out commissioning tests and partial discharge measurement
- Locate a fault using the available methods
- Decide between repair and replacement on an ageing circuit

Who should attend

- Electrical and cable engineers
- Installation and jointing supervisors
- Utility distribution engineers
- Commissioning and testing staff
- Project engineers on cable installations

Course outline

- 01 Cable construction and insulation types
- 02 Current rating, derating and installation conditions
- 03 Joints and terminations
- 04 Installation practice: bending radius, pulling tension and handling
- 05 Jointing and termination technique
- 06 Commissioning testing
- 07 Partial discharge measurement on cable systems
- 08 Fault location methods and the repair decision

Upcoming dates

Dates	Venue	Format	Fee per delegate
23 to 27 November 2026	Pretoria, South Africa	Classroom	R19,950
14 to 18 December 2026	Nairobi, Kenya	Classroom	USD 1,325
11 to 15 January 2027	Online	Online	R8,500
15 to 19 March 2027	Harare, Zimbabwe	Classroom	USD 1,325



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** 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@afiscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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