

Electrical Protection

Electrical Engineering Courses

Course Overview

Electrical Protection: a 5-day professional training course from LTC Consultants, delivered in-classroom across Africa and live online.

What You Will Achieve

- Calculate fault currents and understand what protection must detect
- Explain protection philosophy: sensitivity, selectivity, speed, security
- Apply overcurrent, differential and distance protection appropriately
- Grade and coordinate protection so the right device trips first
- Test and commission relays with proper documentation

Who Should Attend

Electrical engineers, protection technicians, substation staff and maintenance professionals in utilities, mines and heavy industry.

Course Outline

1. Power system faults: types, causes and calculation
2. Instrument transformers: CTs, VTs and their errors
3. Protection philosophy and the protection scheme
4. Overcurrent and earth-fault protection and settings
5. Differential protection: transformers, busbars, feeders
6. Distance protection for transmission lines
7. Grading and coordination studies in practice
8. Relay testing, commissioning and maintenance

Upcoming Dates and Fees

DATES	VENUE	FEE (PER DELEGATE)
2 to 6 Nov 2026	Durban	\$1,450
16 to 20 Nov 2026	Accra	\$1,550
23 to 27 Nov 2026	Online	\$800
30 Nov to 4 Dec 2026	Lagos	\$1,395

LTC Consultants

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Every delegate receives a Certificate of Attendance. Group and in-house rates available on request.