

Power Cable Fault Location

Course overview

Finding power cable faults quickly and accurately is essential in reducing supply disruption, customer minutes lost, restoring the network and reducing the costs of fault correction. This course will equip you with all the skills needed to diagnose and find faults in power cables.

The course includes hands on training with a wide range of cable fault location equipment including VLF, PD mapping and Cable Sniffer systems.

Cost: Two-day course: £935 + VAT

Location: EA Technology, Capenhurst, Chester, CH1 6ES

Who should attend?

This course contains essential training and updates if you are a practicing engineer or technician with responsibility for cable maintenance and repair.

It will be of benefit to engineering professionals working within the electricity supply industry and related fields, including practicing transmission and distribution engineers, managers, cable engineers and fitters, graduate trainees, manufacturers, suppliers and contractors.

Benefits of attending this course

- Minimise supply disruption by locating faults more quickly
- Reduce expenditure by accurately locating faults first time avoiding multiple excavations
- Develop an understanding of the interaction between power system elements
- Gain expertise in using the latest cable fault detection equipment
- Update your knowledge of the latest techniques and technology
- Develop specialist cable engineering skills that are in short supply



Substations Courses
Specialist Courses
Cables Courses
Power Networks Courses
Protection Courses
Tailored Programmes

Power Cable Fault Location

Course programme

Day one

Health and safety issues

- Hazards and safety considerations
- Permits and sanctions for test
- Cable identification and location

Diagnosis and detection

Prelocation bridge methods: theory

Prelocation bridge methods: practical

Prelocation TDR methods: theory

Prelocation TDR methods: practical

Pinpointing methods

Prelocation HV TDR methods: theory

Cable tracing and identification

Demonstration of equipment

Day two

LV Cable Fault Location

- Fault characteristics
- Pre-location techniques
- On-line monitoring
- Automatic reporting

Prelocation transient methods: theory

VLF testing and DC pressure testing

- Background
- Equipment
- Case studies

Partial discharge detection and location

Prelocation transient methods: practical

Fault location on EHV cables

Equipment selection

- Diagnosis
- Pre-location
- Pinpointing

Demonstration of equipment

Open forum

Programme may be subject to amendment



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