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
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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