

Power System Protection: Part One

Course overview

Covering the principles of power system protection. The course includes practical exercises and a 'walk through' the LV and HV system. It provides a very detailed introduction to essential protection principles at a level that does not require knowledge of complex numbers.

It is designed to lead on to the Power Systems Protection: Part Two course which takes delegates on to protection theory and calculations at a level that does involve complex numbers.

Cost: Two-day course: £935 + VAT

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

Who should attend?

You should attend this course if you are an engineering professional working within the electricity supply industry or any related field. It can be seen as an initial introduction to the subject, or as an update on the latest technology and practice for more experienced engineers.

The course will also benefit practising distribution engineers, managers and graduate trainees.

Benefits of attending this course

- Understand why protection is critical on electrical networks
- Develop an understanding of protection systems for power assets
- Understand the role of protection in network design
- Develop an understanding of fault calculations, be able to apply learnt skills directly in your place of work
- Understand safety requirements in power network protection

Substations Courses

Specialist Courses

Cables Courses

Power Networks Courses

Protection Courses

Tailored Programmes



Power System Protection: Part One

Course programme

Day one

Role of Protection

- Contribution in network design
- Safety requirements
- Principles

Components and Operation

- LV and MV fuses - characteristics and construction
- Time limit fuses and CT release
- Relays, basic principles, Inst, DT, IDMT, O/C & EF

Introduction to Grading

- Current and time grading
- Fuses
- IDMT
- Definite time
- Practical exercise

LV Networks Protection

- Principles
- Walk through the LV system

Day two

HV Networks Protection

- Principles
- Walk through HV network system

Basic Fault Calculations

Fuses

- Construction and operation
- HV and LV fuses
- LV fuse grading

LV ACB Electronic Relays

- Basic principles
- Settings explained
- Plotting characteristics on log-log paper
- Additional features

Programme may be subject to amendment



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