



Objectives

To familiarise personnel with the maintenance aspects of safeguarding systems with an emphasis on regular and breakdown maintenance. The course will cover basic safety principles with respect to the normal operation of the system, without violating basic safety requirements (prevention of personal injury, damage to the equipment, extra loss of production or environmental damage). In particular, in the event of an (un)expected installation breakdown, returning the system to its original operating status.

Who should attend?

Maintenance or service personnel who will be responsible for the daily operation and first-line maintenance activities of a safeguarding system, in compliance with safety regulations and the IEC61508 standard.

Prerequisite knowledge

Participants require a working knowledge of computers, MS-Windows, electronics and Boolean logic. They should have already completed the ProSafe-PLC 4-mation course.

Programme

Day 1:

- § Welcome and course introduction
- § ProSafe-PLC hardware
- § Exercise: hardware construction of a node-to-node system
- § Refresher ProSafe-PLC Set (4-mation)
- § Exercise: creation of a module tree
- § Exercise: fault finding, search, display real-time values, force signals, transfer

Day 2:

- § Downloading an application
- § Navigating through the application
- § Database compare
- § Finding errors in typicals in combination with hardware
- § On-line modification/replacement hardware
- § Transfer from a real system to a control simulator (using import/export)

Day 3:

- § Diagnostic logger
- § Exercise: fault-finding using error log & D-logger (errors will be generated during the session)
- § Evaluation

Duration

3 days