Introduction to Programmable Logic Controllers
Using CoDeSys

Designed to give delegates an introduction to PLC controlled systems, the course aims to familiarise them with the associated equipment and terminology, as well as the writing and implementation of simple programs.

Programming is done using CoDeSys, a development environment for programming logic controller applications, which conforms to the international industrial standard IEC 61131-3.

The course covers writing programs on a PC, downloading to a PLC, connecting the relevant hardware devices and running the program. Operation is monitored and faults identified on-line.

During the course programming exercises are based on 2 of the available languages, Ladder Diagram and Instruction List, however reference is made to the other 4 languages available. A strong emphasis is placed on safety and appropriate working practices throughout the course, especially during the practical sessions.

Maintenance technicians / engineers with responsibilities to fault find on machines.

Previous knowledge:
- Components of PLC control systems
- Inputs and outputs
- Signal processing
- Central processing unit
- Logic functions
- Programming languages: Ladder Diagram, Instruction List
- Overview of Function Block Diagram, Structured Text, Sequential Function Chart and Continuous Function Chart languages.
- Program documentation
- Sequence control
- Variables
- On-line monitoring
- Timers
- Fault finding

Training outcomes:
On completion of this course the participant will be able to:
1. Identify the component parts of a PLC controlled system.
2. Describe logic and memory functions as used in a PLC application.
3. Make effective use of pre-programming documentation to structure a program.
4. Understand the basic structure of Ladder Diagram PLC programs.
5. Understand the basic structure of Instruction List PLC programs.
6. Write and apply basic PLC programs in Ladder Diagram and Instruction List languages.
7. Construct simple control applications using a PLC.

Course duration:
Courses take place over three days and are available in-house or at one of our national training centres. Practical exercises are used throughout the course.

Order number/Price:
561204/£875.00

For course dates and booking: call 01604 667584 or visit www.festo-didactic.co.uk/training