

SIEMENS S7 1200**Siemens S7 1200 Maintenance Course**

The course has been designed to familiarise Electricians, Technicians and Maintenance Engineers with little or no experience of PLC's to the many different aspects associated with the operation and maintenance of Siemens S7 1200 controllers.

Where possible, application specific exercises, actual drawings and programs listings are used to allow the students to gain the greatest possible benefit from the course.

Objectives

To introduce students to the concepts and operation of Siemens S7 200 programmable controllers, including the following areas:

- ✓ Reload programs.
- ✓ I/O Fault finding.
- ✓ Processor faults.
- ✓ Fault finding on communication links.
- ✓ Implement small changes to the program.
- ✓ Using the Simatic S7 1200 programmer to connect online and monitor programs to determine plant problems.

Course Content

- ✓ The hardware architecture of the Siemens S7 1200 range of controllers.
- ✓ I/O modules and wiring.
- ✓ Addresses used in the S7 1200 range of controllers.
- ✓ Program structure, introduction to blocks; OB's and subroutines.
- ✓ First steps with the programmer.
- ✓ Downloading projects to the PLC.
- ✓ Creating an online connection.
- ✓ Debug, online monitoring and the cross-reference XRF.
- ✓ Programming using LAD.
- ✓ Editing and modifying programs.
- ✓ Instruction set.
Relay, maths, move, compare and logic functions.
- ✓ Data Formats.
- ✓ Data blocks.
- ✓ Using and creating program documentation.
- ✓ Introduction to function blocks and their uses.
- ✓ Using the symbols list.
- ✓ Advanced functions:
Load, transfer, maths and compares.
- ✓ Analogue modules and analogue scaling.
- ✓ Diagnostic information and module information used for fault finding.
- ✓ Data monitoring and modifying variables.
- ✓ Forcing facilities.

Course Reference
S71200MNT

Course Duration
3 Days

Documentation
Siemens S7 1200
Programming and
Maintenance
Training Manual.

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