

SIEMENS S5 MAINTENANCE

The course has been designed to familiarise Electricians, Technicians and Maintenance Engineers with little or no experience of S5 to the many different aspects associated with the operation and maintenance of Siemens S5 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 S5 programmable controllers, including the following areas:

- ✓ Locate and replace faulty modules.
- ✓ Reload programs.
- ✓ I/O Fault finding.
- ✓ Introduction to communications.
- ✓ Implement changes to the program.
- ✓ Using the programmer to connect online and monitor programs to determine plant problems

COURSE CONTENT

- ✓ The hardware architecture of a S5 range of controllers.
- ✓ I/O Modules and wiring.
- ✓ Addresses used in the S5 range of controllers.
- ✓ Data Formats.
- ✓ Data blocks.
- ✓ Program structure, introduction to blocks; OB's, PB's FB's, SB's and DB's.
- ✓ Introduction to LAD, CSF and STL programming formats.
- ✓ Introduction to project settings and file types ST.S5D etc.
- ✓ First steps with the program.
- ✓ Loading and save projects to the PLC.
- ✓ Online monitoring and the cross-reference XRF.
- ✓ Programming using LAD, CSF and STL.
- ✓ Editing and modifying programs.
- ✓ Instruction set. Relay, maths, move, compare and logic functions.
- ✓ Using and creating program documentation.
- ✓ Copying and backing up folders.
- ✓ Introduction to function blocks and their uses.
- ✓ Using the assignment list.
- ✓ Advanced functions. Load, transfer, Maths and compares.
- ✓ Analogue modules and analogue scaling.
- ✓ Concept of ISTACK and BSTACK.
- ✓ Data monitoring using the Status Variable.
- ✓ Forcing facilities.
- ✓ Application exercises on your plant programs.

Course Reference
S5MNT

Course Duration
5 Days

Documentation
Siemens S5 Programming
and Maintenance Training
Manual.

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