

## S5 System 1 Course (ST-S5SYS1)

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### Short Description

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The course is aimed at personnel in all areas, who are interested in any of the following, but have no knowledge of SIMATIC S5: · Solving simple tasks with SIMATIC S5 controllers · Visiting the follow-on courses ST-S5SYS2 · Using SIMATIC S5 to learn about the principle of operation and application of programmable controllers

### Objectives

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On completion of this course the student will be able to:-

Systematically use the current Siemens programmers as tools for program generation, documentation and troubleshooting

Know performance characteristics, component parts and principle of operation of a SIMATIC S5 programmable controllers

Fulfil simple logic control tasks, e.g. write programs, start up the PLC and remedy errors

Master and use the basic operations of the STEP 5 programming language

Know the different starting characteristics of SIMATIC S5 programmable controllers after a stop status

Be familiar with typical applications and be able to use them in practice

### Target Group

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### Content

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Powering up and operating the programmer and programmable controller

Representation of STEP 5 operations in the form of control system flowchart (CSF), ladder diagram (LAD), or statement list (STL)

Logic operations, result of the logic operation, memory functions, counter functions, comparison functions, timer functions, arithmetic operation

PG functions for program documentation

Absolute and symbolic addressing

PG functions for tests, diagnostics and troubleshooting

Action in case of faults in the RUN status and faults leading to the stop status

Starting characteristics, organisation blocks for cold restart and warm restart

Configuration, addressing facilities and performance characteristics of the CPU's

Programming of program blocks, function blocks, organisation blocks and data blocks and linking with the program structure

The theoretical contents are applied in practice by means of practic-e-oriented task and intensive exercises on the programmers and the programmable controller. They are continuously applied and tested on a conveyor model

### Prerequisites

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The ability to use a PC Keyboard and Mouse to open and close programs.

### Note

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### Type

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Face-to-face training

### Duration

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5 days

### Language

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### Fee

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2,440 GBP