

## S7 Programming Part 1 (ST-7PRO1)

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### Short Description

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S7 Programming Part 1

### Objectives

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#### Aims and Objectives

This course is directed at users with engineering experience in the fields of configuring, design & commissioning of SIMATIC S7 programmable controllers. The course provides an optimal entry level to the product-specific & in depth supplementary courses.

### Content

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The SIMATIC S7 family.  
Programming devices.  
The SIMATIC Manager & customizing options.  
Configuration & addressing of modules.  
CPU properties, symbols tables.  
Creating projects in LAD/STL/FBD.  
Cyclic program execution.  
Basic functions & jumps.  
Number formats, Timers & Counters.  
Data handling including arrays & structures.  
Functions & Function Blocks with assignable parameters.  
Multiple instance Model.  
Diagnostics with B, I, L stacks.  
Monitor/modify variables & debugging.  
Testing program execution using breakpoints.  
OB's & startup considerations.  
Analog Value processing.  
Documenting, Saving, Archiving.  
Communication via MPI GD table & subnets.  
Discussion of configuring Multi-computer Operation.  
Totally Integrated Automation principles.  
▪ S7-GGRAPH, S7-HIGGRAPH & S7-SCL high-level languages discussion.

### Prerequisites

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Programmers and System integrators involved with SIMATIC 7 programmable controllers.

### 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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24,474 ZAR