

## S7 Programming Part 2 (ST-7PRO2.)

---

### Short Description

---

S7 Programming Part 2

### Objectives

---

#### Aims and Objectives

Advanced programming techniques. This course is directed at users with engineering experience in the fields of configuring, design & commissioning of SIMATIC S7 programmable controllers. The knowledge & skills acquired in the ST-7PRO1 course will be consolidated & extended to enable the participant to structure & generate & put into operation complex programs. The knowledge provided by this course makes it easier to solve complex programming problems.

### Content

---

Status Bit-Dependent Instructions.  
Accumulator Functions & Word logic.  
Instruction with REAL numbers.  
Indirect addressing & Address Register Instructions.  
Structure of Pointers with Memory indirect Addressing.  
STEP7 Data types & Variables.  
Data Block ARRAY's & STRUCTURES.  
Using Libraries & System Functions.  
Handling Synchronous & Asynchronous Errors.  
Basic & Expanded S7 Communication.  
S7-GRAPH, S7-HIGRAPH software packages.  
Engineering Tools for S7/M7.  
Connection to PTP, PROFIBUS, Industrial Ethernet, Internet.  
SIMATIC S7-400 & 400H.  
State Graphs, SCL structures.  
▪ CFC & SFC editor.

### Prerequisites

---

Successful completion of the ST-7PRO1 Course

### Type

---

Online-Training

### Duration

---

5 days

### Language

---

en

### Fee

---

14,576 ZAR