

## Siemens SIMATIC S7 TIA System Course [English] (TIA-PRO1EN)

### Short Description

In this course you will learn to use the maintenance, test and diagnostic tools of the STEP 7 PLC programs. With the explained functions you are able to write, change, load into the PLC and test programs. All subjects are tested with practical exercises using a SIMATIC S7-1500, an HMI Panel and conveyor model.

### Objectives

**Combined course SIMATIC S7 Systemcourse 1A+1B TIA-Portal in English.**

**Only for Groups.**

**SIMATIC S7 Systemcourse 1A**

In this course you will learn the basics of the Automating system SIMATIC S7 and the Engineering software STEP7, WinCC and TIA portal. All subjects are tested with practical exercises using a SIMATIC S7-1500, an HMI Panel and conveyor model. After the course you are able to commission a SIMATIC S7 system and test the programs.

**SIMATIC S7 Systemcourse 1B**

In this course you will learn to use the maintenance, test and diagnostic tools of the STEP 7 PLC programs. With the explained functions you are able to write, change, load into the PLC and test programs. All subjects are tested with practical exercises using a SIMATIC S7-1500, an HMI Panel and conveyor model.

### Target Group

Programmers, Commissioning and maintenance personal

### Content

#### **SIMATIC S7 Systemcourse 1A**

The subjects is this course are:

- Introduction SIMATIC S7 and SIMATIC STEP7 TIA portal
- Configuration of systems and networks to access the PLC via the PC
- Creating TAG lists
- Structuring the program using the correct program blocks
- Using Binary instructions to create programs
- Programming a Human Machine Interface (HMI)
- Timers and Counters
- functions of the device configuration
- test tools for the program

#### **SIMATIC S7 Systemcourse 1B**

The subjects is this course are:

- Commissioning remote I/O with Profibus DP and Profinet IO
- data types and related function
- programming parameter assignable Functions (FC) and using temporary variables
- programming parameter assignable Function blocks (FB) and using static variables
- data blocks
- using analog in- and output signals
- test and diagnostic tools for soft- and hardware
- Programming a Human Machine Interface (HMI)
- introduction programming language SCL
- introduction programming language GRAPH

### Prerequisites

Basic knowledge of industrial automation.

### Note

Exercises are tested with a S7-1500 system. A few days before the start of the course you will get access to a WBT about Basic PLC functionality.

### Type

Face-to-face training

### Duration

5 days

### Language

en

### Fee

2,375 EUR

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