

## Siemens SIMATIC S7 Systemcourse 1B met TIA Portal (TIA-PRO1B)

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### Short Description

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Basic knowledge 1B part of the Automation System SIMATIC S7 PLC with TIA Portal; Management, testing and diagnostic tools of the STEP 7 programs.

### Objectives

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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

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Programmers, Commissioning and maintenance personal

### Content

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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

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The SIMATIC S7 Basic course [TIA-PRO1A] or similar knowledge.

### Note

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Exercises are tested with a S7-1500 system, HMI panel, conveyor model and PC.

### Type

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Face-to-face training

### Duration

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3 days

### Language

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en, nl

### Fee

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1,650 EUR