

PROGRAMMING COURSE 1 SIMATIC TIA PORTAL

Programming and implementation, analog values, PROFINET IO, operator panel

DURATION

5 Days

CONTENT

- Working with the digital twin (SIMIT)
- Structuring programs
- Interface to EPLAN (AML and structure)
- Data management with complex data structures
- Functions, function blocks, and multi-instances
- Types of addressing, indirect addressing
- Analog value processing of SIMATIC S7
- Advanced instructions
- Integration of an operator control and monitoring system (HMI panel)
- Changes in the WinCC project
- Configuring messages
- Configuring and commissioning PROFINET IO
- Use of organization blocks for error diagnosis
- Troubleshooting and error handling
- Displaying alarms on an operator control and monitoring system
- Introduction to GRAPH
- Introduction to SCL (Structured Control Language)
- Introduction of Technology Functions

ONLINE VORBEREITUNG

Mit unserem praxisnahen Online-Training bereiten Sie sich optimal auf den Online-Vorbereitung Programmierkurs 1 TIA Portal vor. [Hier erhalten Sie weitere Informationen.](#)

TARGET GROUP

Programmers, commissioning engineers, project planners, advanced service personnel

REQUIREMENTS

Knowledge of Basic Course or System Upgrade Course SIMATIC S7-1500 and TIA Portal and knowledge of SIMATIC S7 and TIA Portal.

SOFTWARE / DEVICES

TIA Portal, STEP 7, WinCC, GRAPH, SCL, S7-1500, ET 200, technology module, HMI panel, plant model

OUR RECOMMENDATION

Please also attend Programming Course 2 SIMATIC TIA Portal. We moreover offer additional advanced modules focusing on engineering, operator control and monitoring, communication and drive technology.

Events

YOUR PERSONAL CONTACT PERSON

Hochheim am Main

At our headquarters in Hochheim we advise you for our locations **Berlin, Braunschweig, Düsseldorf, Hamburg, Hochheim am Main** and **Mannheim**.



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München

At our headquarters in Munich we advise you for our locations **Dresden, Freiburg, Graz, Innsbruck, Leipzig, Linz, München, Nürnberg, Stuttgart, Zürich** und **Wien**.



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