

Online Training – SIMATIC Programming 2 in TIA Portal (TIA-PRO2)

简要介绍

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with SIMATIC STEP 7 and SIMATIC WinCC.

The second online training of the SIMATIC TIA Portal programming training is based on the knowledge of the TIA Portal gained in the SIMATIC S7 TIA Portal programming 1 course, including STEP 7, SIMATIC S7, HMI and PROFINET IO. You will expand your knowledge of complex operations and you get an introduction in the programming language Structured Control Language (SCL). Along with analog value processing and data administration with complex data types, the evaluation and handling of program-related errors are also considered. Thanks to the knowledge imparted, you will gain new impetus and ideas for efficient PLC programming.

In order to provide you with the best possible support and training in your personal learning environment (own office/home office), we have implemented selected courses as digital online trainings for you. We provide you with live theory lectures from our experts, which convey the course content described in the learning objectives in a practical and comprehensive manner, utilizing our virtual exercise environment for practical exercises. In our virtual classroom, our expert is also available to you at any time during your individual practical exercises for in-depth questions and technical discussions.

培训目的

After attending the course, you can do the following:

Understand the interaction of TIA components

- Apply classical program development methods
- Solve comprehensive programming tasks
- structure programs
- use complex / PLC data types
- Implement data administration (arithmetic and management functions) with the SIMATIC S7 automation system
- Apply system blocks along with blocks from the standard STEP 7 library
- Program classical software error handling and evaluation
- Configure TIA system components consisting of central, IO periphery and HMI devices from the SIMATIC family

You will deepen your theoretical knowledge through numerous practice-oriented exercises in our virtual exercise environment on a TIA plant model. This consists of a SIMATIC S7-1500 automation system, WinCC Panel and a virtual model.

培训对象

Programmers

Commissioning engineers

Engineering personnel

课程内容

Tools for program creation (e.g. structograms)

Analog value processing

Functions, function blocks, and multi-instances using the IEC-compliant timer/counter as an example (International Electro technical Commission)

Ways to structure programs

Working with complex data

Classical software error handling and evaluation with error organization blocks (OBs)

Evaluation of diagnostic data

Integrating WinCC Panel

Working with Structured Control Language (SCL)

Consolidation of the content through practice-oriented exercises in the virtual exercise environment.

Included in the course price: Free access to the digital learning platform [SITRAIN access](#) — starting one week before the start of the course until two weeks after the end of the course. Here you will find web-based trainings on TIA Portal – SW Units, and many more. With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

必备条件

SIMATIC S7 knowledge corresponding to TIA-PRO1 and practical experience in using the knowledge

You can use the available online entry test to ensure that the selected course matches your area of expertise.

- [Online Assessment Test](#)
- [Technical requirements](#) > VLab

注意事项

In this course you will work with SIMATIC S7-1500 and software SIMATIC STEP 7 based on TIA Portal.

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all of the more than 480 web-based trainings available.

课程类型

网络培训

培训天数

5 天

培训语言

en