

TIA Portal Programming Expert (TIA-PROEXP)

Short Description

SIMATIC WinCC Unified as a visualization system in the TIA Portal. The system impresses with its use of native web technologies, which you will become acquainted with in this course. You will also learn about its high degree of openness thanks to high-performance interfaces. Learn to use WinCC Unified and the new Unified Comfort Panels and get a personal impression of the capabilities of the new devices.

Objectives

After attending the course, you can do the following:

Indirect addressing of optimized data

Programming of reusable STEP 7 blocks based on IEC 61131-3.

Create versioning of blocks and user libraries

Program STEP 7 blocks with program-technical error handling and evaluation

Develop and implement in-house standards

You will deepen your theoretical knowledge through numerous practice-oriented exercises in our virtual learning environment. This consists of a SIMATIC S7-1500 and a virtual model of a production plant.

Target Group

Programmers

Content

Reusable building blocks with optimized data access

Indirect addressing of complex data structures by using the parameter types ARRAY*, VARIANT and REF_TO

Versioning using typing in the project and global library

Block creation according to the IEC 61131-3

Use of ProDiag to generate block messages

Deepening of the SCL programming language

Deepening of the content through practice-oriented exercises on the SIMATIC S7-1500 and a virtual model of a production plant.

Prerequisites

SIMATIC S7 knowledge corresponding to TIA-PROADV-LJ, TIA-PRO2 or TIA-SYSUP and practical experience in using the knowledge.

Basic knowledge of the SCL programming language according to TIA-SCL1 is mandatory.

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

Online Assessment Test

Note

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

Type

Face-to-face training

Duration

3 days

Language

no