

TIA Portal Programming Expert (TIA-PROEXP)

Descrição resumida

Choose this course if you want to become a SIMATIC S7-1500 expert using a higher level programming language (SCL). You expand your knowledge of the runtime and memory-optimized creation of standardized building blocks for a corporate library. Using a practice-oriented exercise environment with a virtual model of a manufacturing plant, you will deepen your knowledge of the higher programming language.

Objetivos

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.

Grupo alvo

Programmers

Conteúdo

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.

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 - Libraries, 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.

Pré-requisitos

SIMATIC S7 knowledge corresponding to TIA-PRO2-LJ, TIA-PRO2 or TIA-SYUP 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](#)

Observações

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 available web-based trainings.

Tipo

Treinamento presencial

Duração

3 dias

Idioma

en