

## On line-Training Programmazione TIA Portal per esperti (TIA-PROEXP)

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### Short Description

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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.

### Objectives

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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

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- Programmers

### Content

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- 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

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SIMATIC S7 knowledge corresponding to TIA-PRO2 or TIA-SYSUP and practical experience in using the knowledge. Basic knowledge of the SCL programming language according to TIA-SCL is mandatory.

### Note

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

### Type

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Online-Training

### Duration

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18 hours

### Language

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