

## TIA Portal Openness Programmierung 2 (DI-OPEN2)

### Short Description

TIA Portal Openness is the API or programming interface provided with TIA Portal, with which you can efficiently automate engineering tasks without using the TIA Portal itself. This includes tasks such as project management, configuration and parameterization of hardware, automatic generation of block code as well as various online functions.

### Objectives

You will get to know all these functions during this course. Using ready-made project blocks available in a library, you will

- learn what you need to do to use TIA Openness
- create a project
- create and adapt an S7-1500 with central and distributed I/O
- provide an HMI with a variety of screens
- generate a PLC program
- after appropriate preparation, fill the devices with the generated data
- get to know other useful functions and ideas of implementing functions

### Target Group

- Programmers
- Configuration engineers
- Project planners

### Content

- Digitalization - Industry 4.0
- Introduction to Visual Studio (as a short recap)
- Introduction to TIA Portal Openness and the auto-save tool
- Working with libraries and projects in the TIA portal
- Adapting hardware through TIA Portal Openness
- Generation of PLC programs from library elements
- Increased flexibility by extending the existing program
- Programming ideas

This course includes a 4-week Learning Membership for our digital learning platform [SITRAIN access](#). Here you will find web-based trainings on [TIA Openness](#) as well as other topics such as [Digital Enterprise](#), [SIMATIC Automation Systems](#) 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.

### Prerequisites

- Good TIA Portal knowledge
- Good programming skills in the C# programming language and in working with Visual Studio

### Note

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 270 web-based trainings available.

### Type

Face-to-face training

### Duration

2 days

### Language

de