

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

### Short Description

TIA Portal Openness is the API or programming interface provided with the 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

### Prerequisites

SIMATIC TIA Portal knowledge in the context of TIA-PRO2 or TIA-SYSUP  
Good programming skills in the C# programming language and in working with Visual Studio. For this, you can attend the course [DI-OPEN1](#)

### Note

As a part of your course booking you will receive free trial access to the digital learning platform: [=> Access to SITRAIN access](#)  
You have access to over 200 web-based training courses 7 days before the start of the course. The test period ends automatically 14 days after the end of the course.

Here you will find web-based trainings on [TIA Portal 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.

### Type

Face-to-face training

### Duration

2 days

### Language

en