

## On line-Training Sviluppo efficiente con Team Engineering in TIA Portal (TIA-TEAMEN)

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### Short Description

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You would like to reduce your engineering effort and speed up the development of new machines? Team-work and agile development methods are the solution. In this course you will learn how you can efficiently work as a team in TIA Portal and optimally distribute the tasks.

### Objectives

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Using a practical example, you will learn how to work efficiently in the team in the TIA Portal environment. As well, you will know the concepts of team-oriented cooperation after this course and will be able to apply them in the TIA Portal environment.

The objectives of this course are:

- You will become familiar with the most important topics needed to prepare for working in the team.
- You will be able to structure the automation program according to functions and working groups.
- You will be aware of the advantages of using Multiuser Commissioning when downloading STEP 7 programs.
- You will be able to efficiently work together to develop a project in the team.
- You will be able to implement a commissioning in the team and you will become familiar with the advantages of distributed commissioning.
- You will become familiar with Multiuser Engineering and agile development in automation.

### Target Group

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- Programmers
- Commissioning engineers
- Engineering personnel

### Content

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- Modularization of the user program through software units:
  - Structuring of the automation program, for example, according to functions and working groups
  - Creation of UNITS and working with them in TIA Portal
- Management, versioning and documentation of TIA Portal projects with the help of the TIA Portal project server:
  - Setting up a project server for multiuser accesses
  - Management of projects on the project server
  - Starting and working with multiuser sessions
  - Starting and working with exclusive sessions
- Convenient commissioning in the team through Multiuser Commissioning:
  - Advantages when downloading STEP 7 programs
  - Working with asynchronous/synchronous commissioning
- Straightforward integration of modifications in the common source code basis through Continuous Integration

### Prerequisites

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Basic knowledge of SIMATIC STEP 7 programming (Programming skills at the level TIA-PRO2 or TIA-SYSUP).  
In-depth SIMATIC S7 and TIA Portal knowledge.  
Programming and utilization of functions and function blocks that can be parameterized.

### Type

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Online-Training

### Duration

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18 hours

### Language

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