

## Standardization in the TIA Portal for more efficiency and error-free machines (DI-STAND)

### Short Description

The basis for digitalization is the standardization. This is reflected in standardized sequences, interfaces and software components. It also includes the software and hardware in the automation environment. Standardization is an ongoing process so that you already have standardized sequences, interfaces and software components today. Nevertheless, development continues and there are new trends, such as, virtual commissioning, data analysis in the cloud and automatic execution of automation processes that require adjustments or realignment to the current standard. Learn from Siemens as manufacturer how you can optimally design your interfaces and program structures through standardization in terms of effectiveness and efficiency.

### Objectives

In this training course, we will explain all aspects of standardization, especially the modularization of your automation system and show you how you can implement it.

In particular, this means you will learn how you can create your own Styleguide, how you efficiently manage your blocks, templates and interfaces in a TIA Portal library and how these blocks can be automatically tested. As well, we will discuss how you can set up and implement your own company library. Finally, you will become familiar with the aspects that are important for line standardization. The training course is characterized by a high practical portion; all contents are consolidated and reinforced through exercises in TIA Portal. Create the basis for your digitalization today.

### Target Group

Decision makers  
Project planners  
Programming persons  
Project designers  
System integrators

### Content

Standardization – on the way to digitalization  
Advantages of standardization of PLC software  
Possibilities for implementing a standard  
Structuring the machine/system in individual functions/subfunctions as a basis  
Re-usability of program parts (according to IEC 61131 and Programming Guidelines)  
Creating a Styleguide and automatically testing it  
Block modularization and automatically testing it  
Working correctly with libraries  
Creating a company library  
Standards in the visualization – HMI  
Standardized interfaces – OPC UA, TCP/UDP, ...  
Principles of line standardization

### Prerequisites

Basic knowledge in SIMATIC TIA Portal Step 7 equal to TIA-PRO2 or TIA-SYSUP

### Note

Course documentation: English  
Instructor: English

### Type

Face-to-face training

### Duration

3 days

### Language

en