SIEMENS

# Online-Training Standardizzazione nel TIA Portal per una programmazione di macchine più efficiente e senza errori (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

After attending the course, you can:
- Modularize your automation system
- Create your own Styleguide
- Efficiently manage blocks, templates and interfaces in a TIA Portal library
- Automatically test program blocks.
- Set up and implement your own corporate library
- Become familiar with the most important aspects for line standardization

## 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

Theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-1500 automation system, a SIMATIC ET 200 distributed I/O, a SIMATIC WinCC Advanced operator control, drive SINAMICS G120 and a conveyor model.

## Prerequisites

S71500S1 or S71500P1 course or equivalent basic knowledge of automation systems.

## Note

This course is also available in Virtual Classroom mode: E-STAND.

## Type

Online-Training

## Duration

18 hours

## Language

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