SIEMENS

Online-Training - Standardization in 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
- Technical requirements

Type

Online-Training

Duration

3 days

Language

en

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