

Digitalization Stand_SiVArc (DIGI-STDSI)

Objectives

To make participants aware and familiar with:

- Concept of Industry 4.0
- Digitalization options available in TIA Portal
- Standardization in TIA portal for more efficiency and error-free machines
- SiVArc option of automatic visualization generation

Target Group

- Programmers
- Solution engineers
- Configuration engineers
- Commissioning engineers
- Project planners
- Project designers
- System integrators

Content

Introduction to digitalization

- Digitalization - Industry 4.0
- Impact of digitalization on current business models
- Brief on user scenarios of digitalization

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

SiVArc – option for automatic visualization generation

- Demands on the PLC project in terms of standardization and structuring
- Planning an automatic visualization
- Automatic screen generation
 - Layouting
 - Navigation
 - Extended positioning
 - Overflow screens
 - Creation of pop-ups
- Troubleshooting and analysis of the generated visualization

HANDS ON

- Application example-based exercises after each topic.

SOFTWARE VERSION

- STEP7 TIA Portal v16 Professional
- WinCC Comfort/Advance/Professional TIA Portal v16
- TIA portal options/required tools:
 - Test Suite
 - SiVArc

Prerequisites

- Basic know how about automation technology is must
- Basic knowledge of electrical technology and digital electronics
- SIMATIC S7-1500 Basic course is highly recommended

Note

TECHNICAL REQUIREMENT

- SIMATIC S7-1500 training kit with comfort HMI panel
- Laptop or computer system with following configuration (recommended), with SIMATIC STEP 7 Professional and WinCC & comfort, Advance, Professional with TIA Portal v16 installed:

Hardware / software Requirement

- Processor Intel® Core™ i5-6440EQ (up to 3.4 GHz)
- RAM 16 GB (32 GB for large projects)
- Hard disk SSD with 50 GB free storage space
- Network 1 Gbit (for multi-user)
- Monitor 15.6" full HD display (1920 x 1080 or more)
- Operating system Windows 7 (64-bit), Windows 10 (64-bit), Windows Server (64 bit)
- Additional TIA portal options to be installed/required tools:
 - Test Suite
 - SIVARC

Type

Face-to-face training

Duration

3 days

Language

en

Fee

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ON REQUEST