

TIA in Digital Enterprise – Automatic Execution of Engineering Tasks / 自动工程 – 控制程序和人机界面的自动生成 (F4022)

Objectives

This course gives you an overview of Totally Integrated Automation in the Digital Enterprise as your way towards Industry 4.0 and an overview about the interaction of the various software packages, so that you will be able to assess them after completing the course. The objective of the course is to achieve higher efficiency in the creation of PLC code and HMI visualizations for modular machines.

Target Group

Automation Engineers, Project Planner, Programmer

Content

- Digitalization – Industry 4.0
- Automatic execution of engineering tasks
- Standardization as the basis for digitalization
- Modularization of a machine
- Standardization and storage with the aid of the TIA Portal library
- Practical insight into standardized programming
- Standards in automation
- Hardware and software generators and data exchange with ECAD
- Adaptation of a project generator
- The need for program tests
- Program block test based on TIA Portal
- Principles of the automated generation of visualizations
- Steps for generating visualizations with SiVArC
- Introduction to TIA Portal Openness
- Importing hardware from another engineering platform in the TIA Portal
- Executing functions automatically via Openness in TIA Portal
- Introduction to SIMATIC Visualization – SiVArC
- Demands on the PLC project in terms of standardization and structuring
- Planning of automatic visualization
- Automatic screen generation

Prerequisites

Basic knowledge of automation engineering, Knowledge of TIA Portal

Type

Face-to-face training

Duration

3 days

Language

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