

Online-Training - VASS 6 OEM Workshop for Beginners (CT-VAS6OEE)

Short Description

In order to provide you with the best possible support and training in your personal learning environment (own office/home office), we have implemented selected courses as digital online trainings for you. We provide you with live theory lectures from our experts, which convey the course content described in the learning objectives in a practical and comprehensive manner, utilizing our virtual exercise environment for practical exercises. In our virtual classroom, our expert is also available to you at any time during your individual practical exercises for in-depth questions and technical discussions.

Objectives

Participants will gain proficiency in the VASS standard with emphasis on the following:

- Installation and configuration of PROFINET and PROFIsafe components
- Gaining familiarity with the PLC program structure for plant control
- Operating the visualization and becoming familiar with the alarm system

Target Group

The workshop is aimed at OEMs and suppliers without VASS-knowledge:

- Commissioning engineers
- Configuration engineers
- Programmers

Content

Preparation of the programming device
HW requirements and SW used
Basic Windows settings
Folder structures
TIA Portal project procedure
Settings in the TIA Portal
Device catalog and GSD files
Project creation
Data provision
General approach and configuration steps
PROFINET project creation
HW configuration
Basics of block organization
Symbols
Basics of program structure
ProDiag alarm system
Programming a sequential program
Robots
Function definitions
Safety program
Large-scale display
HMI
Conveyor technology with multiple operating stations
Central plant supervision

Prerequisites

The following requirement is essential for participation in the VASS V6 Workshop:

- SIMATIC TIA Portal S7-1500 – Proficiency in the use and programming of the S7-1500 CPU as well as programming in the Safety Integrated environment. The required knowledge corresponds to the contents of the TIA-PRO1 and TIA-PRO2 or the TIA-SYSUP and TIA-SAFETY courses.
- [Technical requirements](#) > VLab

Note

PC:

Please bring your own notebook to the workshop. The installation of disk drives C and D is required.

Please install the following programs (version) before the workshop

- SIMATIC STEP 7 Professional (Version 17 Update 5)
- SIMATIC STEP 7 Safety Advanced (Version 17)
- SIMATIC WinCC Advanced (Version 17 Update 5)
- SIMATIC Visualization Architect (Version 17 Update 5)
- TIA Portal Openness (Version 17 Update 5)
- SIMATIC WinCC Runtime Advanced, 8192 Power Tags (Version 17 Update 5)
- SIMATIC WinCC Logging for Runtime Advanced (---)
- SIMATIC ProDiag for WinCC Runtime Advanced (---)
- SINAMICS Startdrive (Version 17 Update 1)
- PLCSIM (Version 17 Update 5)

- PLCSIM Advanced (V4.0 ... V6.0)

Type

Online-Training

Duration

5 days

Language

en