

## 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 16 Update 2)
- SIMATIC STEP 7 Safety Advanced (Version 16)
- SIMATIC WinCC Advanced (Version 16 Update 2)
- SIMATIC Visualization Architect (Version 16 Update 2)
- TIA Portal Openness (Version 16 Update 2)
- SIMATIC WinCC Runtime Advanced, 8192 Power Tags (Version 16 Update 2)
- SINAMICS Startdrive (Version 16 Update 2)
- PLCSIM (Version 16 Update 2)

### Type

Online-Training

**Duration**

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5 days

**Language**

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