



SIMATIC WINCC OPEN ARCHITECTURE

Certified WinCC OA Safety Engineer Workshop

This two-day instructor-led workshop provides experienced trainees with the knowledge and skills necessary to set up WinCC OA in safety related projects. The existing basic and operating conditions will be discussed in detail. Implications to the customer's project will also be taken into consideration.

Course code
ETM-WinCCOASAF

SIEMENS

Target group

WinCC OA engineers, consultants and developers, as well as persons with responsibility in the safety life cycle.

Prerequisites

Participating trainees are required to have deeper knowledge of WinCC OA CTRL programming, PLC and network knowledge. Trainees must have previously attended the “Certified WinCC OA Basic Training” (ETM-WinCCOABAS) and “Certified WinCC OA Engineer Workshop” (ETM-WinCCOAENG). Trainees should bring a suitable laptop. A training copy of the WinCC OA software will be provided for the duration of the course if needed. A minimum specification for this PC is detailed in the note below. Fundamental understanding of IEC61508 is not covered by this course but strongly recommended.

Training objectives

On completion of this course the trainee is able to configure WinCC OA in a robust way so that it may interact with safety related systems. Participants know how to develop applications that fulfill the basic- and operating conditions (Safety Manual) for WinCC OA.

Content

- Safety requirements derived from EN DIN 61508
- Concept for using WinCC OA as a SCADA system in safety relevant systems and environment
- WinCC OA core functionality for setting up a robust system
- Example of a hazard & risk analysis

Please note

WinCC OA only supports 64bit-operating systems! Hardware and software, except for WinCC OA, are not provided and must be brought by the participant. The minimum hardware and software requirements are as follows:

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|---------------------|---|
| • Processor | Intel Core i3 / i5 / i7 with 2.2 GHz or similar |
| • RAM | 4 GB |
| • HDD | 5GB free disk space |
| • Graphic | 1280 x 1024 |
| • Input | Keyboard, mouse and USB-port (required) |
| • Operating system | Windows 10 CB Version 20H2, LTSC Version 2019, Windows Server 2019,
RedHat Enterprise Linux 8 64bit, Oracle® Linux 8.3, SIMATIC Industrial OS 2.2,
Docker-Version 20.10.3 with Debian 10 Buster |
| • Optional | VMware Cluster (HA) ESXi 7.0 Update 1*
(supported by all operating systems which are mentioned above) |
| • Optional software | Microsoft Excel 2016, Excel 365 1912
(Only 32bit Excel versions can be used for the WinCC OA Excel-report.) |

Duration

2 days non-residential

*...The use of a virtualization is optional and not required for the installation of WinCC OA!