

Certified WinCC OA Security Workshop

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Course code

ETM-WinCCOASEC

Description

This three-day instructor led course provides experienced trainees with the knowledge and skills necessary to use WinCC OA as a process control system in a secure network environment, as recommended in WinCC OA Security Guideline.

This course introduces trainees into the basics of security mechanisms which are available in WinCC OA.

Prerequisites

Participating trainees should be PC literate (MS Windows, keyboard and mouse skills), have PLC and network knowledge. A basic knowledge of programming is of advantage. Trainees must have previously attended the "Certified WinCC OA Basic Training" (ETM-WinCCOABAS) and the "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. Furthermore, some basic knowledge of IT security is advantageous.

Training objectives

On completion of this course the trainee will be able to handle more complex WinCC OA applications in a secure network environment. The trainee knows which security options are available in WinCC OA and the trainee can also configure these. In addition, the trainee masters the handling of the SIMATIC WinCC Open Architecture Security Guideline.

Content

- Regulations by Government – IEC62443
- WinCC OA Security Guideline
- Secured Communication in WinCC OA
- Configuration of Multiplexing Proxy and Architecture examples with mxProxy
- TLS Certificates in WinCC OA
- Administration and Configuration of WinCC OA
- WinCC OA Server-side Authentication
- WinCC OA User-defined Authentication
- WinCC OA Security Exercise
- Discussion of customer projects

Restriction

The certificate is only valid for the used WinCC OA version during this training. An update of this certificate to a succeeding version of WinCC OA is possible during a 1-day Security Update training.



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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:

- 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 6.7 Update 3*
(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

3 days non-residential

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