

# Certified WinCC OA Engineer Workshop

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### Course code

ETM-WinCCOAENG

### Description

In this three-day instructor-led course the participants become acquainted with the internal mechanisms and details of WinCC OA. Typical subjects are debugging, performance, communication between the managers and scripting "Do's and Don'ts". To derive a maximum benefit a current customer project is used as basis for discussion to show and discuss the used mechanism. Further subjects (like WinCC OA Add-On's or special functions) can be arranged previously with the trainer.

### Prerequisites

Participating trainees should be PC literate (MS Windows, keyboard and mouse skills), have PLC and network knowledge. A basic knowledge of programming is advantageous. Trainees must have previously attended the "Certified WinCC OA Basic Training" (ETM-WinCCOABAS) and must also have at least three months of experience with WinCC OA. 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.

### Training objectives

On completion of this course the trainee will have a deeper knowledge about the internal mechanisms of WinCC OA and therefore he will be able to handle more complex WinCC OA applications, including the functionalities of the chosen and trained WinCC OA add-on modules.

### Content

- Explanation of all configs in detail
- Project structure (use of sub projects, config files hierarchy)
- Review and discussion of a distinct customer project (DPTs, configs, value archive configuration, graphical objects, CTRL-scripts – "Do's and Don'ts")
- Analysis Tools: Reports, Debug flags, messages, CTRL script debugger, etc.
- Up to two additional WinCC OA modules may be chosen by the participants. Available modules: Plant model, Security concept (MxProxy), Reporting with SOAP interface (BIRT), VIDEO, Remote UIs (Ultralight Client UX, Desktop UI, mobile UI (Android, iOS), Recipes, Scheduler, Redundancy, Distributed systems, DRS (Disaster Recovery System), Communication center, Driver (S7 and others), RDB (Oracle archiving), APM (Advanced Playback Manager), API, Mass configuration / Multilanguage, Object design, AMS (Advanced Maintenance Suite)

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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!