

Certified WinCC OA Basic Training

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Course code

ETM-WinCCOABAS

Description

This one-week instructor-led course provides trainees with the knowledge and skills necessary to successfully design and build a WinCC OA application. It is the base for all other WinCC OA trainings / workshops.

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 should bring a suitable laptop. A training copy of the WinCC OA software will be installed on this notebook as part of the training. A minimum specification for this PC is detailed in the note below.

Training objectives

On completion of this course the trainee will be able to produce a simple application and modify existing applications.

Content

- WinCC OA concepts: The managers, PARA module, GEDI module
- Control programming
- Animation of graphical objects / scripting
- References of graphical objects
- Panel topology
- User / permission management
- The alert concept
- Alert- and event screen
- Data point groups
- (Power)-configs
- Complex graphical objects
- Multi language support
- Zooming and (de)cluttering
- History-DB
- Archiving and archive compression



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- Linking to the periphery
- Mass-engineering of configuration data
- Variable trend
- Working with scripts and libraries
- Online-Backup
- Emergency mode
- Module 1 - Redundant systems: communication in WinCC OA, requirements for „Hot-Standby“ redundancy, WinCC OA system in detail, redu-switching in detail, redundant LAN-connections, failure modes in redundancy, LAN-connections, priorities for system switching, message logic: peripherals → WinCC OA
- Module 2 - Distributed systems

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

One week non-residential

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