Certified WinCC OA Basic Training – web-based

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Course code
ETM-WinCCOABAS

Description
This seven-day instructor-led web-based course provides trainees with the knowledge and skills necessary to successfully design and build a WinCC OA application. It is aimed at staff getting their first experience of WinCC OA.

Prerequisites
The offer of web-based training courses is limited to the time period of the Coronavirus crisis (SARS-CoV-2 / COVID-19).

The web-based basic training is restricted to a maximum number of 5 participants per course.

Trainees must join on time, according to the time from their meeting invitation. Late Participants might be excluded from the course.

Participating trainees should be PC literate (MS Windows, keyboard and mouse skills), have PLC and network knowledge. A basic knowledge of programming is advantageous. Participants not fulfilling the preconditions might be excluded from the course.

Trainees must use a suitable laptop or desktop computer (one computer per trainee). A minimum specification for this PC is detailed in the note below.

A training copy of the WinCC OA software will be installed on this computer as part of the training.

2 screens must be connected to the used computer.

Trainees must use a decent headset and webcam for the communication (NO Polycom NOR computer mic / speakers).

A proper internet connection must be available (preferably NO VPN).

Trainees must be in a quiet room (alone in the room, NO background noise).

As tools, Cisco WebEx or MS Teams and Siemens Conceptboard are used.

Required material is exchanged via Siemens SecuFex and email.

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

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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

- 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

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Please note: 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 1803 (64bit) LTSC Version 1809 64bit (64bit),
                          Windows Server 2019 64bit, Windows Server 2016 64bit), RedHat Enterprise
                          Linux 8 64bit ,CentOS 8 64bit (64bit), SUSE Linux Enterprise Server Version 15
                          (64bit).

- Optional VMware*   ESXi Version 6 and Version 6.5 (supported by all operating systems listed
                          above)
                          Sphere Cluster (HA) with ESXi 6.0 and ESXi 6.5

- Optional software   Microsoft Excel 2013/2016 (32 bit)

Duration
7 days web-based course

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