

# Certified WinCC OA Developer Workshop

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### Course code

ETM-WinCCOADEV

### Description

This three-day instructor-led workshop provides for experienced trainees the knowledge and skills necessary to use the WinCC OA API Toolkit. In the training the means of creating custom CTRL-extensions (DLLs), managers and/or simple drivers will be presented.

### Prerequisites

- Solid skills in C++ programming
- Proper skills about PLC 's and network
- Completed "Certified WinCC OA Basic Training"
- Suitable laptop, according to the requirement list
- Installed version of WinCC OA (information about used version must be communicated in advance)
- Development environment, according to the requirement list
- Completed "Certified WinCC OA Engineer Workshop" is preferable

### Training objectives

On completion of this course the trainee will be able to develop custom CTRL-Extensions (DLLs), Managers and/or Drivers, to extend the already given functionalities of WinCC OA.

### Content

- Introduction to the WinCC OA API
- Creating a simple CTRL-Extension
- Creating a simple Manager
- Creating a simple Driver

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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.)

Development environment for WinCC OA 3.16:

- Windows Visual C++ / Visual Studio 2019 Compiler Version for x64
- Linux Red Hat Enterprise Linux mit GCC Version 8.2.1  
SUSE Linux Enterprise mit GCC Version 7.4.1

## Duration

3 days non-residential

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