



SIMATIC WINCC OPEN ARCHITECTURE

WinCC OA VIDEO Expert

This two day instructor-led course provides trainees with the knowledge and skills necessary to successfully plan and build video surveillance systems based on WinCC OA VIDEO. Based on presentations and hands-on practices this training provides the technical base for the setup of cameras, installation of distributed video systems and the optimization of bandwidth usage.

Course code

ETM-WinCCOAVID

SIEMENS

Prerequisites

Participating trainees should be PC literate (MS Windows, keyboard and mouse skills) and have basic skills in network technologies. Trainees must have previously attended the “Certified WinCC OA Basic Training” (ETM-WinCCOABAS) training. Trainees must 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 notes below.

Training objectives

On completion of this course the trainee will know the basic principles of IP based video surveillance systems and the internal mechanisms and distribution options of WinCC OA VIDEO. Based on this knowledge trainees passed the course will be able to plan and implement distributed video surveillance systems based on WinCC OA VIDEO.

Content

- Introduction to WinCC OA VIDEO
- System architecture and recording concepts
- Redundancy concepts
- Fundamentals of IP based video surveillance systems
 - Image resolutions
 - Video Codecs
 - Network bandwidths
 - Storage requirements
- Hands-On practices
 - Setup of WinCC OA projects with video (single-user host)
 - Installation of distributed video systems
 - Composition of redundant video systems
 - Integration with redundant WinCC OA projects
 - Setup of process and recording redundancy
 - Configuration of video sources (unicast, multicast & encoder pools)
 - Video-Workstation, Display-Server & Export service
 - Alarm management in WinCC OA VIDEO
 - Administrative Tools & logging concepts in the video system
 - Trouble Shooting & Failure Analysis

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. For the hands-on practices the trainee needs local administrative rights in the operating system, for IP address configuration, to install software and changing security settings (like Personal Firewall, Antivirus Software).

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

Duration

2 days non-residential