

Corso di sistema SIMATIC WinCC (ST-BWINCCS)

Short Description

The SCADA system (Supervisory Control and Data Acquisition) SIMATIC WinCC V7.x is designed for visualization and operator control of processes, production flows, machines and plants. In this course, you will learn how to use SIMATIC WinCC V7.x easily and quickly for your applications. You will also be shown how to log messages and values and how to design and implement the appropriate logs. You can effectively use the engineering phase thanks to what you have learned about reliably operating the system.

Objectives

After attending the course, you can:

- Efficiently and reliably operate SIMATIC WinCC V7.x
- Understand and edit SIMATIC WinCC V7.x projects
- Optimally design an operator interface and selectively use faceplates
- Create screen navigation and user administration
- Implement logging concepts for messages, alarms and measured values
- Selectively access values from SIMATIC S7 and display and further process these values
- Create user-defined scripts
- Understand the advantages of the openness of SIMATIC WinCC V7.x

Target Group

Programmers
Commissioning engineers
Service personnel
Operators
Maintenance personnel

Content

- System overview of SIMATIC WinCC V7.x
- Creating projects, types of projects, data structure
- Communication with controllers
- Creating tags and groups, working effectively with the Configuration Studio, internal and external tags, system info channel, simulation of tag values
- Cross reference editor
- Benefits and opportunities of TIA
- Working effectively with the Graphics Designer
- Dynamization of objects in screens using tag connection, configuration dialog, dynamic wizard, animation , dynamic dialog, direct connection, C scripts and VB scripts
- Diagnostic and performance guidelines for C scripts and VB scripts
- Global Script Editor for user-created functions and screen-independent actions
- User administration: WinCC users and groups, authorization levels
- Faceplate technology via screen window with tag prefix and via faceplate types
- Tag logging: Archives and archive tags, archive configuration, types of archiving, OnlineTrendControl
- Alarm logging: Alarm procedures, alarm classes and types, archive configuration, alarm control, system alarms, status tags
- Introduction to data archiving with the User Archives option
- Introduction to Report Designer for reporting

The theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC WinCC 7.x SCADA system connected to a SIMATIC S7 automation system and a conveyor model.

Prerequisites

Basic knowledge of automation systems.
Knowledge of SIMATIC STEP 7 V5.x and the SIMATIC S7-300 PLC is recommended.

Note

In this course, the SIMATIC WinCC V7.x software is used. TIA-WCCS course is available for SCADA supervision with SIMATIC WinCC (TIA Portal).

Type

Face-to-face training

Duration

5 days

Language

it

