

SCADA con SIMATIC WinCC Professional (TIA Portal) (TIA-WCCS)

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 based on the TIA Portal engineering platform
- Understand and edit SIMATIC WinCC projects for use in the SCADA area
- Optimally design an operator interface and selectively use faceplates
- Create screen navigation and user administration
- Implement logging concepts for messages, alarms and measured values
- Access specific values from the SIMATIC S7 and display and further process them in the SCADA system
- Create user-defined scripts

Target Group

Programmers
Commissioning engineers
Service personnel
Operators
Maintenance personnel

Content

- System overview of SIMATIC WinCC Professional (TIA Portal)
- Creating a SIMATIC WinCC project
- Configuration of connection to the SIMATIC S7 automation system
- Structuring the operator interface
- Basics of graphic image creation for operator control and monitoring
- Navigating through the process pictures
- User administration
- Alarm display, alarm logging, alarm configuration
- Tag logging, trend configuration, trend display
- Trend plotting, and message representation including logging of data in the database
- Recipes
- Faceplates for reuse and centralized modification of graphics blocks
- Background processing Global Scripting

The theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC WinCC Professional SCADA system connected to a SIMATIC S7-1500 automation system and a conveyor model.

Prerequisites

Basic knowledge of automation systems.

Note

This course uses SIMATIC WinCC Runtime Professional on a PC connected to a SIMATIC S7-1500 automation system and the SIMATIC WinCC Professional (TIA Portal) software.
WINCCB course is available for SCADA supervision with SIMATIC WinCC V7.x.

Type

Face-to-face training

Duration

5 days

Language

it