SIEMENS

Online-Training SIMATIC WinCC SCADA in the TIA Portal (TIA-WCCS)

Objectives

In this live online course, The Totally Integrated Automation Portal (TIA Portal) provides the working environment for end-to-end engineering with SIMATIC STEP 7 and SIMATIC WinCC.
The SCADA functionality (Supervisory Control and Data Acquisition) of WinCC is designed for visualization and operation of processes, manufacturing cycles, machines and plants.
The course is based on the possibilities of WinCC SCADA in TIA Portal at the time.
You will learn how to create and dynamize the required interface. You will also be shown how to log messages and values and how to design and implement the appropriate logs.
After learning how to use the system safely, you can use the engineering phase effectively.
The course content is supported by a host of practical exercises on a system model.
This comprises the SIMATIC S7-1500 programmable controller (PLC) and different human machine interfacing (HMI) stations.
After attending the course, you can do the following:
Use SIMATIC WinCC efficiently and reliably on the basis of the "TIA Portal" engineering platform
Understand and edit SIMATIC WinCC projects for use in the SCADA area
Optimally structure the user interface
Implement logging concepts for messages, alarms and measured values
Selectively access values in the SIMATIC S7 and display and further process these values in the HMI system

Target Group

Programmers
Commissioning engineers
Engineering personnel
Maintenance personnel
Service personnel
Operators

Content

System overview TIA Portal, SIMATIC WinCC (SCADA)
Creating a SIMATIC WinCC project
Configuring the connection to the SIMATIC S7 automation system
Structuring the operator interface
Fundamentals of creating graphics displays for human machine interfacing
Navigating through the plant displays
User administration
Message representation, message logging, message configuring
Variable logging, trend configuring, and trend plotting
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
Reinforcement of the content by means of practical exercises on the TIA system model
SIMATIC S7-1500, SIMATIC STEP 7 (TIA Portal)
SIMATIC WinCC (TIA Portal)

Prerequisites

Basic knowledge of automation engineering
You can use the available online entry test to ensure that the selected course corresponds to your level of competence.

Type

Online-Training

Duration

5 days

Language

tr

Fee

1,270 EUR
(price without 20% VAT)

copyright by Siemens AG 2026