

## SIMATIC WinCC SCADA in the TIA Portal (TIA-WCCS)

### Objectives

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

Face-to-face training

### Duration

5 days

### Language

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### Fee

1,000 EUR  
( price without 20% VAT )