SIEMENS

TIA Portal WinCC SCADA Course (TIA-WCCS)

Short Description

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 Professional is designed for visualization and operation of processes, manufacturing cycles, machines and plants. The course is based on the possibilities of WinCC Professional 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 programmable controller (PLC).

Objectives

On completion of this course the participant will be able to do the following:
Use SIMATIC WinCC Professional efficiently and reliably on the basis of the "TIA Portal" engineering platform
Understand and edit SIMATIC WinCC Professional 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

Content

System overview TIA Portal, SIMATIC WinCC Professional
Creating a SIMATIC WinCC Professional 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

Prerequisites

Basic knowledge of automation engineering.

Type

Face-to-face training

Duration

5 days

Language

en

Fee

2,810 GBP