SIEMENS

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

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

4 Days
2.6 CEUs

Target Group

- Programmer
- Engineer
- Maintenance

Short Description

This course is for PLC users with engineering or maintenance experience who will be designing and configuring automation systems and their application programs using Siemens TIA Portal Windows Control Center (WinCC) Professional SCADA (Supervisory Control and Data Acquisition).

Using a model application, this course provides a system overview of WinCC Professional with emphasis on its capabilities and special features. Detailed configuration procedures will be studied in an order compatible with the typical development of an industrial application. Participants will learn the correct development process beginning with creating a project and concluding with reporting and printing. During this course, examples of programs will be written to take advantage of WinCC open architecture. Throughout this course lecture materials are complimented with hands-on exercises which build a working WinCC Professional application.

Objectives

- Create and manage WinCC Projects
- Integrate components between WinCC and TIA Portal
- Create WinCC tags in STEP 7 symbol table
- Establish communications with the PLC
- Design a complex graphic
- Configure internal and external tags
- Define & Administer User Security
- Set and test the WinCC Alarms and Messages
- Configure, archive and display Trends & Tables
- Configure, preview and print Reports

Content

- System overview TIA Portal, SIMATIC WinCC (SCADA)
- 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 interfaces
- Navigating through the plant displays

- User administration
- Message representation, message logging, message configuring
- Variable logging, trend configuring, and trend plotting
- Message representation including logging of data in the database
- Recipes
- Re-usable face plates and centralized modification of graphics blocks
- Global Scripting & Background processing

Language

English