

## TIA Portal WinCC Professional Configuration (SCADA) - Virtual (SCT-PTOILWCSP1A)

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### Global Reference

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

### Type

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Virtual Instructor-led Learning

### Duration and Continuing Education Units (CEU)

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20 Hours (Schedule varies)  
2 CEUs

### Target Group

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- Maintenance
- Engineer

### Short Description

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Using a model application, this virtual 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. Examples of programs written to take advantage of WinCC's open architecture are discussed. Throughout this course, lecture materials are complemented with virtual exercises which build a working WinCC Professional application. Access to fully functional software, virtual tools, and exercises are provided to each student through a cloud-based application.

### Objectives

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- 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

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- 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

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English

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