SIEMENS

SIMATIC WinCC on the Machine Level in TIA Portal (TIA-WCCM1)

Korte beschrijving

In order to provide you with the best possible support and training in your personal learning environment (own office/home office), we have implemented selected courses as digital online trainings for you. We provide you with live theory lectures from our experts, which convey the course content described in the learning objectives in a practical and comprehensive manner, utilizing our virtual exercise environment for practical exercises. In our virtual classroom, our expert is also available to you at any time during your individual practical exercises for in-depth questions and technical discussions. When operator control of basic functions of a small machine or of complex processes is needed – the HMI is the interface between operator and automation. You will gain knowledge of how to flawlessly create operating screens for Basic Panels, Comfort Panels, Mobile Panels and Runtime Advanced with WinCC (TIA Portal).

Doelen

You will learn how to design, create and dynamize operating screens. You will learn how to log messages and values and to design and implement the corresponding archives. You can effectively use the engineering phase thanks to what you have learned about reliably operating the system.
After attending the course, you can do the following:
• Efficiently and reliably operate SIMATIC WinCC based on the "TIA Portal" engineering platform.
• Design operating screens (screens, pop-up screens and templates).
• Create screen navigation. (permanent area and slide-in)
• Configure alarms and messages that communicate the current machine status to the operator.
• Implement archiving concepts for alarms and values that allow you to look back into the past of your machine and to identify potential improvements.
• Access specific values from the SIMATIC S7 and display and further process them in the operator control and monitoring system (HMI).
You will deepen your theoretical knowledge through numerous practice-oriented exercises in our virtual exercise environment.

Doelgroep

You are tasked with creating and/or editing HMI projects. Whether you are someone who is just getting started or has already been exposed to the subject of HMIs, this course will provide you with new information so that you can work confidently with WinCC (TIA Portal).
• Programmers
• Commissioning engineers
• Configuring engineers
• Service personnel
• Maintenance personnel
• Service personnel
• Operators

Inhoud

Product version: WinCC V21
• System overview of TIA Portal, SIMATIC WinCC (machine-level)
• Creating a SIMATIC WinCC project
• Configuration of connection to the SIMATIC S7 automation system
• Basics of graphic image creation for operator control and monitoring
• User administration
• Alarm display, alarm logging, alarm configuration
• Tag logging, trend configuration, trend display
• Recipes
• Use of various HMI stations
• Consolidation of the contents through practice-oriented exercises in the virtual exercise environment.

Included in the course price: Free access to the digital learning platform SITRAIN access – starting one week before the start of the course until two weeks after the end of the course. With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

Vereiste voorwaarden

• Basic knowledge of automation technology
• Technical requirements

Opmerking

WinCC (TIA Portal) is divided generally into the machine-level area and SCADA systems.
In this course, you will work with the SIMATIC WinCC Comfort and SIMATIC WinCC Advanced (both products are based on the TIA Portal). In the course, you will work with a Comfort Panel and a Runtime Advanced PC single-user system that communicates with a SIMATIC S7-1500.
As a supplement to this course, we offer the WinCC (TIA Portal) advanced course TIA-WCCM2.
For SIMATIC WinCC Professional (SCADA system software based on TIA Portal), we offer the course TIA-WCCS.
For SIMATIC WinCC V8.x (SCADA system), we offer the system course ST-BWINCCS as well as the advanced course ST-BWINOND.
For additional courses on SIMATIC WinCC V8.x, visit our Learning Path "SIMATIC WinCC V8.x".

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all of the more than 480 web-based trainings available.

Soort

Online training

Duur

3 dagen

Taal

en

copyright by Siemens AG 2026