

HMI con SIMATIC WinCC (TIA Portal) (TIA-WCCM)

Short Description

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 SIMATIC WinCC (TIA Portal). 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.

Objectives

After attending the course, you can:

- 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 SIMATIC HMI

Target Group

Programmers
Commissioning engineers
Service personnel
Operators
Maintenance personnel

Content

- 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

The theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC WinCC Comfort/Advanced operator control connected to a SIMATIC S7-1500 automation system and a conveyor model.

Prerequisites

Basic knowledge of automation systems.
Knowledge of automation system SIMATIC S7-1500 is recommended.

Note

This course uses SIMATIC WinCC Runtime Advanced on a PC connected to a SIMATIC S7-1500 automation system and the SIMATIC WinCC Comfort/Advanced (TIA Portal) software.

SCADA supervision systems are not covered in this course.

You can prepare for this activity through the **SIE-learning 4.0** SIE-HMIC preparatory course.

At the end of the course you can deepen the topics covered through our **SIE-learning 4.0**: SIE-HMIADV, SIE-HMIEX, SIE-HMISAF.

Type

Face-to-face training

Duration

3 days

Language

it