

Avviamento e gestione di sistemi di controllo e monitoraggio SIMATIC WinCC Unified (TIA-DIAG-UWC)

Short Description

This course provides the basic knowledge required to understand the different SIMATIC WinCC Unified solutions and to properly manage supervisory devices within an automation system based on TIA Portal. The objective is to enable technical personnel to configure operator panels and runtime systems, identify possible malfunctions, and take prompt action to minimize machine downtime. During the course, participants will be introduced to the full range of WinCC Unified platforms, with particular focus on the scalability of Basic Panels, Comfort Panels, and PC Runtime systems. They will learn how to perform the initial configuration of operator panels by setting key parameters such as IP address, firmware version, remote access, and date and time. The course will also cover how to integrate a Unified device into a TIA Portal project, how to establish and verify communication with SIMATIC S71200 and S71500 PLCs, and how to use the available diagnostic tools to analyze and resolve operating issues. Additionally, the course explains backup, replacement, and restoration procedures for WinCC Unified devices, using both builtin panel functions and dedicated software tools such as TIA Portal and ProSave.

Objectives

After attending the course, you will be able to:

- Distinguish between the various SIMATIC WinCC Unified solutions
- Integrate a SIMATIC WinCC Unified device into a TIA Portal project and manage PLC connections
- Use diagnostic tools to analyze operating anomalies
- Replace a SIMATIC WinCC Unified device using backup and restore tools

Target Group

- Electrical maintenance technicians
- Mechanical maintenance technicians
- Service personnel
- Machine testers
- Commissioning personnel
- Operators

Content

- Overview and scalability of SIMATIC WinCC Unified devices: Basic Panels, Comfort Panels, PC Runtime
 - Initial configuration from the Unified Basic/Comfort Panel control interface: firmware version, IP address, remote access, date and time, etc.
 - Integration of a Unified device into a TIA Portal project
 - Creation/verification of communication with SIMATIC S71200/1500 PLCs
 - Backup of Unified Basic/Comfort Panels using the integrated control panel, TIA Portal, and external tools (ProSave, SIMATIC Automation Tool, etc.)
 - Replacement of a Unified Basic/Comfort Panel device and firmware update
 - Restoration of a Unified Basic/Comfort Panel project
 - Management of a Unified PC Runtime project
 - Diagnostic tools (system alarms, Trace, etc.)
- Theoretical knowledge will be reinforced through practical exercises on a SIMATIC WinCC Unified Comfort Panel control and monitoring system.

Prerequisites

No prerequisites required.

Type

Face-to-face training

Duration

1 day

Language

it