

UDEMY SIMATIC WINCC UNIFIED

Learn to design, configure, and deploy professional HMI/SCADA projects using SIMATIC WinCC Unified in TIA Portal

What you'll learn

- Understand the fundamentals of SIMATIC WinCC Unified and its role in automation.
- Create and design HMI screens with symbols, objects, and templates.
- Configure and connect tags between PLC and HMI.
- Set up and manage Digital and Analog Alarms for process monitoring.
- Implement animations such as visibility, blinking, and multi-state graphics.

Explore related topics

Course content

8 sections • 18 lectures • 5h 0m total length

- Introduction
- 5:07
- How to Create First Project
- 13:48
- Wincc Unified and PLC SIM Advance Communication28:23
- HMI Screen Navigation Template35:35
- Toggle Button14:54
- Momentry Button11:20
- Set-Reset Button8:55
- Text Visibility5:31
- Text Visibility With JS (Java Script)9:48
- Text Visibility With Resource List8:04
- Faceplate Template & Instance28:44

- UDT FacePlate23:06
- Faceplate Popup25:18
- Faceplate Popup with MultiTab13:40
- Faceplate Pump Multi Color Status16:12
- Digital Alarm21:14
- Analog Alarm12:46
- Event Log17:54

Requirements

- No prior experience with WinCC Unified is required — the course starts from the basics.
- Familiarity with Siemens TIA Portal (helpful but not mandatory).
- A Windows PC or laptop with at least 8GB RAM (16GB recommended).
- Installation of TIA Portal with WinCC Unified (trial or licensed version).
- Basic understanding of industrial automation concepts (PLC, HMI, SCADA).

Description

Are you ready to master the latest Siemens HMI/SCADA technology?

This course will guide you step by step through **SIMATIC WinCC Unified**, Siemens' next-generation visualization system integrated into **TIA Portal**.

Whether you are an automation engineer, PLC programmer, or a student eager to build hands-on SCADA projects, this course will give you the skills and confidence to design and deploy professional HMI solutions.

We will start with the basics — installing WinCC Unified, exploring the engineering environment, and creating simple HMI screens. From there, we'll move into practical topics such as **configuring tags, alarms, and events**, setting up **trend displays and archives**, and applying **animations** for dynamic visualization. You will also learn how to use **VB and C# scripts** for advanced logic, configure **user management and security**, and generate reports for industrial applications.

By the end of this course, you will be able to develop a complete HMI/SCADA project, connect it to a Siemens PLC, and implement real-world monitoring and control solutions.

No prior experience with WinCC Unified is required — we will start from scratch and progress to advanced concepts. All you need is a Windows PC with TIA Portal and WinCC Unified installed, and a passion for learning modern automation tools.

Take the first step toward becoming a **Siemens WinCC Unified expert** and advance your career in industrial automation today!

Who this course is for:

- Automation Engineers who want to learn or upgrade their skills in Siemens HMI/SCADA systems.
- PLC Programmers who want to integrate their PLC projects with WinCC Unified.
- Engineering Students looking to build practical knowledge in industrial automation.
- Control & Instrumentation Engineers working in process or manufacturing industries.
- SCADA/HMI Developers transitioning from WinCC Professional or other SCADA systems to WinCC Unified.
- Anyone interested in learning modern HMI/SCADA design using Siemens TIA Portal.