

# Siemens DCS PC7 with WinCC Training

*COURSE CONTENT*

## GET IN TOUCH



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## About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

## About Course

The Siemens DCS PCS 7 with WinCC Training by Multisoft Systems is designed to provide comprehensive knowledge and hands-on expertise in one of the most widely used distributed control systems in modern industrial automation. This program equips engineers, technicians, and automation professionals with the practical skills needed to design, configure, operate, and maintain Siemens PCS 7 systems integrated with WinCC for efficient process visualization and control.

## Module 1: Introduction to DCS & PCS 7

- ✓ Basics of Distributed Control Systems
- ✓ Overview of Siemens PCS 7
- ✓ PCS 7 system architecture
- ✓ Applications in process industries

## Module 2: PCS 7 Hardware & System Components

- ✓ PCS 7 controllers (AS, OS, ES)
- ✓ I/O modules and field devices
- ✓ Redundancy concepts
- ✓ Power supply and networking

## Module 3: PCS 7 Engineering Tools

- ✓ PCS 7 engineering environment
- ✓ Project creation and management
- ✓ Hardware configuration
- ✓ System compilation and download

## Module 4: Control Logic & Process Automation

- ✓ CFC (Continuous Function Chart)
- ✓ SFC (Sequential Function Chart)
- ✓ Control strategies and interlocks
- ✓ Simulation and testing

## Module 5: WinCC SCADA & HMI Development

- ✓ WinCC overview and features
- ✓ Creating process screens
- ✓ Tag management
- ✓ Graphics, trends, and reports

## **Module 6: Alarm & Event Management**

- ✓ Alarm classes and priorities
- ✓ Event logging
- ✓ Operator notifications
- ✓ Alarm handling best practices

## **Module 7: Communication & Networking**

- ✓ Industrial Ethernet & Profibus
- ✓ PCS 7 communication setup
- ✓ Interface with PLCs and third-party devices

## **Module 8: System Diagnostics & Troubleshooting**

- ✓ Fault detection and diagnostics
- ✓ Backup and restore
- ✓ System maintenance

## **Module 9: Batch & Advanced Process Control**

- ✓ Introduction to batch control
- ✓ Recipe management
- ✓ Process optimization