

Siemens PCS7 DCS 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 PCS7 Distributed Control System (DCS) Training offered by Multisoft Systems is designed to provide engineers and technical professionals with comprehensive knowledge and hands-on experience in industrial automation and process control. This specialized training program delves into the core functionalities of Siemens PCS7, one of the most robust and widely used DCS platforms in the industry.

Topics

- ✓ Introduction to the components of a PCS7 system both in terms of Hardware
- ✓ Communication networks and the Software including the Automation System (AS) Controller, OS/ES
- ✓ Introduction to the PCS7 project structure, using the Engineering system (ES) Simatic Manager to showing the Plant Hierarchy, CFC, SCL, SFC and Operator Station
- ✓ Creating a PCS7 project
- ✓ Review of FB and FC block structure
- ✓ Hardware configuration
- ✓ Creating CFC charts
- ✓ Compiling, downloading and testing a project
- ✓ PCS7 Standard library for analogue and digital I/O, motors, valves and control loops in CFC charts
- ✓ Creating SCL function blocks, and then using them in the CFC charts
- ✓ Sequential Control – SFC. Introduction to the concept of SFC, creating SFC, using the editing, and monitoring tools in working example. As well as step failure action, step timers, parallel branches
- ✓ Introduction to the Operator Station – OS (WinCC HMI). Understanding the Single/multi-OS and AS and the plant hierarchy. Exercise on how to build plant mimics, understanding alarms and messages and security and authorization levels.
- ✓ Alarming, further information including Locks, Areas and types
- ✓ Trending, adding trending to the operator mimics
- ✓ Fault finding, using card indication and recovery after power failure
- ✓ PID control in CFC charts, Backing up a PCS7 system