

Siemens PCS neo Administration

COURSE CONTENT

GET IN TOUCH



Multisoft Systems
B - 125, Sector - 2, Noida



(+91) 9810-306-956



info@multosoftsystems.com



www.multosoftsystems.com

About Multisoft

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About Course

Siemens PCS neo Administration Training focuses on the knowledge and practical skills required to administer a modern PCS neo process control environment. Participants explore system architecture, configuration, user and role management, infrastructure, security, system services, backup and recovery, monitoring, troubleshooting, and lifecycle maintenance. The course combines conceptual understanding with administration-oriented scenarios, helping professionals support secure, stable, and efficiently maintained PCS neo environments.

Module 1: Introduction to SIMATIC PCS neo

- ✓ Overview of SIMATIC PCS neo
- ✓ Role of PCS neo in process automation
- ✓ Key system capabilities
- ✓ Web-based engineering and administration concepts
- ✓ PCS neo administration responsibilities
- ✓ Engineering, operation, and administration environments
- ✓ Typical industrial deployment scenarios

Module 2: PCS neo System Architecture and Components

- ✓ PCS neo system architecture
- ✓ Understanding system components and services
- ✓ Engineering and operator environments
- ✓ Server and client architecture
- ✓ Communication infrastructure
- ✓ System topology concepts
- ✓ Interaction between PCS neo components
- ✓ Understanding distributed system configurations

Module 3: Administration Environment and System Access

- ✓ Introduction to administration functions
- ✓ Accessing administrative environments
- ✓ Administrative interfaces and navigation
- ✓ System identification and configuration information

- ✓ Understanding administration workflows
- ✓ Administrative privileges and responsibilities
- ✓ Reviewing system status
- ✓ Managing administrative sessions

Module 4: System Installation and Initial Configuration

- ✓ PCS neo installation considerations
- ✓ Hardware and software prerequisites
- ✓ Preparing the system environment
- ✓ Installation sequence and dependencies
- ✓ Configuring system components
- ✓ Initial server configuration
- ✓ Client environment preparation
- ✓ Verifying installation status
- ✓ Post-installation administrative checks
- ✓ Common installation issues

Module 5: Project and System Administration

- ✓ Understanding PCS neo projects and system structures
- ✓ Creating and managing administrative structures
- ✓ Project-related administration
- ✓ Managing system resources
- ✓ Configuration consistency
- ✓ Administrative changes and system impact
- ✓ Managing project access

- ✓ Reviewing system configuration
- ✓ Administrative documentation practices

Module 6: User, Role, and Permission Administration

- ✓ User administration concepts
- ✓ Creating and maintaining user accounts
- ✓ Understanding roles and permissions
- ✓ Assigning users to appropriate roles
- ✓ Managing administrative privileges
- ✓ Access authorization concepts
- ✓ Authentication considerations
- ✓ Reviewing user access
- ✓ Modifying and removing user permissions
- ✓ Applying role-based access principles
- ✓ User administration practices for industrial environments

Module 7: Network and Communication Administration

- ✓ PCS neo network architecture
- ✓ Network configuration fundamentals
- ✓ Server and client communication
- ✓ Industrial network considerations
- ✓ Communication paths between system components
- ✓ Network addressing and connectivity
- ✓ Name resolution considerations
- ✓ Communication service administration

- ✓ Checking network availability
- ✓ Diagnosing connectivity problems
- ✓ Network-related administrative practices

Module 8: Server, Client, and Web-Based System Management

- ✓ Server administration concepts
- ✓ Managing PCS neo server environments
- ✓ Client access administration
- ✓ Web-based access considerations
- ✓ Managing system connections
- ✓ Checking server availability
- ✓ Administrative handling of system services
- ✓ Client connectivity troubleshooting
- ✓ Resource and service considerations
- ✓ Managing distributed PCS neo environments

Module 9: System Services, Diagnostics, and Monitoring

- ✓ Understanding PCS neo system services
- ✓ Monitoring system health
- ✓ Reviewing service status
- ✓ System diagnostic information
- ✓ Identifying warnings and administrative issues
- ✓ Log and event analysis concepts

- ✓ Checking communication status
- ✓ Monitoring server and system resources
- ✓ Diagnosing service-related problems
- ✓ Structured fault identification
- ✓ Administrative response to system abnormalities

Module 10: Backup, Restore, and System Recovery

- ✓ Importance of backup strategies
- ✓ Identifying configuration and project data for backup
- ✓ Backup planning
- ✓ Performing administrative backups
- ✓ Managing backup files and storage
- ✓ Restoration concepts
- ✓ System recovery considerations
- ✓ Verifying restored environments
- ✓ Backup integrity checks
- ✓ Recovery planning for system failures
- ✓ Administrative practices for minimizing downtime

Module 11: Security, Maintenance, and Lifecycle Administration

- ✓ Security considerations for PCS neo environments
- ✓ User access security
- ✓ Administrative account practices

- ✓ System hardening considerations
- ✓ Network security awareness
- ✓ Managing system changes
- ✓ Patch and update considerations
- ✓ Maintenance planning
- ✓ Version and compatibility considerations
- ✓ System lifecycle administration
- ✓ Documentation and change tracking
- ✓ Maintaining system availability and reliability

Module 12: Troubleshooting and Administration Practices

- ✓ Structured PCS neo troubleshooting methodology
- ✓ Identifying system administration issues
- ✓ User access and authorization problems
- ✓ Server and client connectivity issues
- ✓ Communication troubleshooting
- ✓ Service-related faults
- ✓ Configuration consistency issues
- ✓ Backup and restoration troubleshooting
- ✓ Reviewing diagnostic information
- ✓ Root-cause identification practices
- ✓ Preventive administration activities
- ✓ Administration checklist and operational recommendations