

Honeywell Experion PKS Administration

COURSE CONTENT

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About Multisoft

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About Course

Honeywell Experion PKS Administration Training is designed for professionals responsible for administering, monitoring, and supporting Experion-based process control environments. The course combines system architecture with practical administration topics such as server and station management, security, network communication, alarm and history administration, backup and restoration, diagnostics, troubleshooting, and preventive maintenance. The structured curriculum helps participants acquire job-relevant knowledge for supporting reliable and efficiently managed Experion PKS installations.

Module 1: Introduction to Honeywell Experion PKS

- ✓ Overview of Distributed Control Systems (DCS)
- ✓ Introduction to Experion Process Knowledge System
- ✓ Experion PKS capabilities and applications
- ✓ Role of Experion in process automation
- ✓ Experion system terminology
- ✓ Administrative responsibilities in an Experion environment
- ✓ Overview of engineering, operations, and administration functions

Module 2: Experion PKS System Architecture

- ✓ Experion PKS architecture overview
- ✓ Server and station architecture
- ✓ Experion Server functions
- ✓ Experion Station concepts
- ✓ Controllers and process control environment
- ✓ Communication between Experion components
- ✓ Network architecture and connectivity
- ✓ Redundancy concepts
- ✓ System nodes and their functions
- ✓ Understanding system topology
- ✓ Architecture considerations for system administration

Module 3: Experion Server Administration

- ✓ Experion Server overview

- ✓ Server roles and services
- ✓ Understanding server status
- ✓ Server startup and shutdown considerations
- ✓ Monitoring Experion server functions
- ✓ Server configuration fundamentals
- ✓ Redundant server concepts
- ✓ Primary and backup server operation
- ✓ Server synchronization considerations
- ✓ Reviewing server-related system information
- ✓ Routine server administration activities

Module 4: Experion Station Administration

- ✓ Experion Station architecture
- ✓ Station types and purposes
- ✓ Station configuration concepts
- ✓ Connecting stations to Experion servers
- ✓ Station startup and login
- ✓ Station settings and preferences
- ✓ Operator and administrative station considerations
- ✓ Display access concepts
- ✓ Station status monitoring
- ✓ Identifying station communication problems
- ✓ Basic station troubleshooting

Module 5: System Configuration and Administrative Tools

- ✓ Overview of Experion administration tools
- ✓ Navigating administrative interfaces
- ✓ System configuration environment
- ✓ Understanding system configuration parameters
- ✓ Configuration management concepts
- ✓ System status information
- ✓ Managing administrative settings
- ✓ Working with configuration utilities
- ✓ Reviewing system properties
- ✓ Configuration change considerations
- ✓ Administrative documentation practices

Module 6: User Accounts, Security, and Access Management

- ✓ Experion security architecture
- ✓ User administration concepts
- ✓ Creating and maintaining user accounts
- ✓ User groups and roles
- ✓ Access levels and privileges
- ✓ Operator and administrator permissions
- ✓ Authentication concepts
- ✓ Security configuration considerations
- ✓ Password and account management practices
- ✓ Restricting access to system functions
- ✓ Security-related administrative checks

- ✓ User access review and maintenance
- ✓ Principles of least-privilege administration

Module 7: Asset, Point, and System Data Administration

- ✓ Understanding Experion points
- ✓ Point types and their applications
- ✓ Point configuration concepts
- ✓ Point properties and parameters
- ✓ Point status and data quality
- ✓ Understanding assets and system hierarchy
- ✓ Asset organization principles
- ✓ Point-to-asset relationships
- ✓ Monitoring point information
- ✓ Identifying point configuration issues
- ✓ Administrative considerations for system data
- ✓ Maintaining organized system structures

Module 8: Alarm, Event, and Message Administration

- ✓ Experion alarm architecture
- ✓ Alarm configuration concepts
- ✓ Alarm priorities
- ✓ Alarm states and acknowledgment
- ✓ Alarm groups and system organization
- ✓ Event handling concepts
- ✓ System messages and notifications

- ✓ Alarm summaries
- ✓ Alarm history
- ✓ Monitoring alarm activity
- ✓ Administrative considerations for alarm configuration
- ✓ Identifying common alarm-related issues
- ✓ Alarm management practices

Module 9: History, Trends, and Data Management

- ✓ Experion history architecture
- ✓ Historical data collection concepts
- ✓ Understanding history parameters
- ✓ History configuration considerations
- ✓ Trend fundamentals
- ✓ Trend data retrieval
- ✓ Historical data availability
- ✓ Monitoring history collection
- ✓ Events and historical records
- ✓ Data storage considerations
- ✓ Identifying gaps in historical information
- ✓ Basic troubleshooting of history-related issues
- ✓ Data retention and administration considerations

Module 10: Backup, Restore, and System Recovery

- ✓ Importance of system backup
- ✓ Experion backup concepts

- ✓ Identifying critical configuration data
- ✓ Backup planning
- ✓ Configuration backup procedures
- ✓ Understanding restoration requirements
- ✓ Restore process considerations
- ✓ System recovery concepts
- ✓ Backup verification
- ✓ Maintaining backup records
- ✓ Recovery planning for administrative teams
- ✓ Backup scheduling considerations
- ✓ Good practices for protecting system configurations

Module 11: System Monitoring, Diagnostics, and Troubleshooting

- ✓ System health monitoring concepts
- ✓ Monitoring server and station status
- ✓ Reviewing Experion system status
- ✓ Understanding system diagnostic information
- ✓ Identifying communication issues
- ✓ Server-related troubleshooting
- ✓ Station-related troubleshooting
- ✓ User access and authentication issues
- ✓ Point and data quality problems
- ✓ Alarm-related troubleshooting
- ✓ History collection issues

- ✓ Network connectivity considerations
- ✓ Reviewing logs and diagnostic information
- ✓ Structured troubleshooting methodology
- ✓ Escalation and documentation of system issues

Module 12: System Maintenance and Administration Best Practices

- ✓ Routine Experion administration activities
- ✓ Daily system health checks
- ✓ Periodic administrative checks
- ✓ User and security reviews
- ✓ Backup verification and maintenance
- ✓ System configuration review
- ✓ Monitoring system performance
- ✓ Managing configuration changes
- ✓ Change documentation
- ✓ Maintenance planning
- ✓ Administrative housekeeping
- ✓ System availability considerations
- ✓ Troubleshooting documentation
- ✓ Administration checklist preparation
- ✓ Operational handover considerations
- ✓ Recommended practices for maintaining a reliable Experion environment