

Emerson Syncade MES Training

COURSE CONTENT

GET IN TOUCH



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About Multisoft

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About Course

Emerson Syncade MES training by Multisoft Systems is designed to help professionals understand and implement Emerson's Syncade Manufacturing Execution System, a powerful platform used to manage and optimize manufacturing operations in regulated industries such as pharmaceuticals, biotechnology, and life sciences.

Module 1: Introduction to Manufacturing Execution Systems (MES)

- ✓ Overview of MES and its role in manufacturing
- ✓ ISA-95 model and MES positioning between ERP and shop floor
- ✓ Benefits of MES in regulated industries
- ✓ Overview of Emerson Syncade MES platform
- ✓ MES use cases in pharmaceutical and life sciences industries

Module 2: Emerson Syncade MES Architecture

- ✓ Syncade system architecture overview
- ✓ Components: Application Server, Database Server, Client Interface
- ✓ Syncade Central and system environment
- ✓ Role of Syncade in manufacturing operations management
- ✓ Integration with ERP, control systems, and automation platforms

Module 3: Syncade User Interface and Navigation

- ✓ Syncade interface overview
- ✓ Logging in and accessing the Syncade system
- ✓ Dashboard and menu navigation
- ✓ User roles and permissions
- ✓ Viewing and managing tasks and workflows

Module 4: Electronic Batch Records (EBR) Management

- ✓ Introduction to Electronic Batch Records
- ✓ Creating and configuring batch records
- ✓ Batch execution and monitoring
- ✓ Data entry, review, and approval workflows
- ✓ Batch history and audit trail management

Module 5: Workflow and Process Configuration

- ✓ Workflow concepts and structure
- ✓ Creating and configuring workflows
- ✓ Task creation and assignment
- ✓ Workflow execution and monitoring
- ✓ Exception handling and process control

Module 6: Material Management

- ✓ Material definitions and configuration
- ✓ Material tracking and traceability
- ✓ Inventory management concepts in Syncade
- ✓ Material consumption and usage tracking
- ✓ Batch-to-material traceability

Module 7: Equipment and Resource Management

- ✓ Equipment configuration and setup
- ✓ Resource allocation and tracking
- ✓ Equipment status management
- ✓ Equipment usage monitoring
- ✓ Maintenance and operational tracking

Module 8: User Management and Security

- ✓ User account creation and management
- ✓ Role-based access control
- ✓ Security configuration
- ✓ Electronic signatures and authentication
- ✓ Audit trail management

Module 9: Exception Management and Quality Control

- ✓ Exception handling concepts
- ✓ Managing deviations and exceptions
- ✓ Quality checks and verification
- ✓ Review and approval workflows
- ✓ Ensuring data integrity and compliance

Module 10: Syncade System Configuration

- ✓ System configuration overview
- ✓ Environment setup and configuration
- ✓ Configuration tools and utilities
- ✓ Managing system parameters
- ✓ System administration basics

Module 11: Integration with ERP and Automation Systems

- ✓ Integration concepts and architecture
- ✓ Syncade integration with ERP systems (SAP, etc.)
- ✓ Data exchange between MES and ERP
- ✓ Integration with control systems and automation platforms
- ✓ Real-time production data synchronization

Module 12: Compliance and Regulatory Requirements

- ✓ Introduction to GMP compliance
- ✓ FDA 21 CFR Part 11 compliance
- ✓ Electronic records and electronic signatures
- ✓ Audit trails and data security
- ✓ Compliance best practices

Module 13: Reporting and Data Management

- ✓ Syncade reporting features
- ✓ Generating production reports
- ✓ Batch and performance reports
- ✓ Data analysis and monitoring
- ✓ Exporting and managing reports

Module 14: Syncade System Administration

- ✓ System monitoring and maintenance
- ✓ Backup and recovery concepts
- ✓ User and system management
- ✓ Troubleshooting common issues
- ✓ Performance optimization basics

Module 15: Real-World Implementation and Case Studies

- ✓ Syncade implementation lifecycle
- ✓ MES deployment best practices
- ✓ Real-world industry scenarios
- ✓ Common challenges and solutions