

# MES PAS-X 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

MES PAS-X Training by Multisoft Systems is designed to provide comprehensive knowledge of Werum PAS-X, one of the world's leading Manufacturing Execution Systems (MES) used in pharmaceutical and life sciences industries. This training focuses on enabling professionals to understand how PAS-X supports digital manufacturing, electronic batch records (EBR), process execution, and regulatory compliance.

## Module 1: Introduction to MES & PAS-X

- ✓ Overview of Manufacturing Execution Systems (MES)
- ✓ Role of MES in pharmaceutical manufacturing
- ✓ Introduction to PAS-X (Werum / Körber)
- ✓ Benefits of PAS-X in regulated environments
- ✓ PAS-X use cases in pharma production

## Module 2: PAS-X System Overview & Navigation

- ✓ PAS-X system components
- ✓ User interface and navigation
- ✓ PAS-X client access and login
- ✓ Understanding PAS-X modules
- ✓ Operator, supervisor, and admin views

## Module 3: Master Data Fundamentals

- ✓ Introduction to master data in PAS-X
- ✓ Material master configuration
- ✓ Equipment master and hierarchy
- ✓ Process definitions
- ✓ User roles and authorization concepts

## Module 4: Batch Manufacturing Concepts

- ✓ Batch manufacturing lifecycle
- ✓ Batch creation and execution flow
- ✓ Batch status and transitions
- ✓ Batch scheduling basics
- ✓ Batch closure and completion

## Module 5: Electronic Batch Records (EBR)

- ✓ EBR concepts and importance
- ✓ Creating electronic batch records
- ✓ Executing batches using EBR
- ✓ Data capture and verification
- ✓ Exception and deviation handling

## Module 6: Recipe & Workflow Management

- ✓ Recipe concepts in PAS-X
- ✓ Master recipe vs control recipe
- ✓ Operations, phases, and parameters
- ✓ Workflow logic and execution steps
- ✓ Recipe versioning and change control

## Module 7: Shop-Floor Execution

- ✓ Operator work instructions
- ✓ Manual and automated process steps
- ✓ Data entry and confirmations
- ✓ Equipment interaction basics
- ✓ Real-time execution monitoring

## Module 8: Integration with ERP Systems

- ✓ PAS-X integration overview
- ✓ Integration with SAP (ECC / S/4HANA)
- ✓ Production order download
- ✓ Material consumption reporting
- ✓ Execution confirmation to ERP

## Module 9: Compliance & Regulatory Requirements

- ✓ GMP and GxP requirements
- ✓ FDA 21 CFR Part 11 overview
- ✓ Audit trails and electronic signatures
- ✓ Data integrity principles (ALCOA+)
- ✓ Inspection and audit readiness

## Module 10: Reporting & Monitoring

- ✓ Production and batch reports
- ✓ Batch history and genealogy
- ✓ KPI monitoring
- ✓ Compliance reporting

## Module 11: PAS-X Administration Basics

- ✓ User and role administration
- ✓ System configuration overview
- ✓ Environment management (DEV / QA / PROD)
- ✓ Backup and restore concepts

## Module 12: Troubleshooting & Support

- ✓ Common PAS-X execution issues
- ✓ Log analysis basics
- ✓ Error handling during batch execution
- ✓ Support and escalation process

## Module 13: Real-Time Project & Use Cases

- ✓ End-to-end batch execution demo
- ✓ Handling deviations and rework
- ✓ Recipe change impact scenarios & Best practices from PAS-X projects