

Murex Architecture 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 Murex Architecture Training by Multisoft Systems provides a comprehensive understanding of the structural design, functionality, and integration framework of the Murex platform — one of the world's leading trading, risk management, and treasury systems. This course is meticulously designed for professionals seeking to master how Murex supports front-to-back-office operations, handles real-time data, and ensures seamless financial workflows across asset classes.

Module 1: Introduction to Murex

- ✓ Overview of Murex as a trading and risk management platform
- ✓ Importance in capital markets, banks, and financial institutions
- ✓ Key business areas supported: Trading, Risk, Collateral, Back-office, Accounting

Module 2: Core Architectural Principles

- ✓ Three-tier architecture: Presentation Layer, Application Layer, Database Layer
- ✓ Service-oriented architecture (SOA) concepts in Murex
- ✓ Role of batch vs. real-time processing
- ✓ High availability and scalability considerations

Module 3: Murex Application Layers

3.1 Presentation Layer

- ✓ Murex client interface (MX.3, thin/thick client concepts)
- ✓ GUI components and workflows

3.2 Application Layer

- ✓ Trade processing engine
- ✓ Risk and pricing engines
- ✓ Simulation servers
- ✓ Workflow orchestration and monitoring

3.3 Data Layer

- ✓ Murex database schema overview (Oracle, Sybase, etc.)
- ✓ Static and dynamic data management
- ✓ Reference data and market data integration

Module 4: Key Components of Murex Architecture

- ✓ MX.3 Platform Architecture
- ✓ DataMart & Reporting services
- ✓ Workflow Engine (WFE)
- ✓ Simulation & Pricing Engines
- ✓ Risk Aggregator and Calculation Grid
- ✓ Event-driven processing

Module 5: Interfaces and Integration

- ✓ MxML Exchange (XML-based integration framework)
- ✓ Real-time messaging: MQ, JMS, FIX, FpML
- ✓ STP (Straight Through Processing) integrations
- ✓ External system connectivity (Trading platforms, Risk systems, SWIFT, Accounting systems)

Module 6: Batch and Real-Time Processing

- ✓ End-of-day batch architecture
- ✓ Grid computing for risk calculations
- ✓ Role of MxBatch and MxML adapters
- ✓ Performance optimization techniques

Module 7: Security and User Management

- ✓ Role-based access control
- ✓ User profiles, permissions, and entitlements
- ✓ Audit trails and compliance

Module 8: System Monitoring & Maintenance

- ✓ Monitoring tools and dashboards
- ✓ Performance tuning best practices

- ✓ Log management and troubleshooting
- ✓ Disaster recovery and backup strategies

Module 9: Advanced Topics

- ✓ Cloud deployment of Murex
- ✓ Murex in DevOps environments (CI/CD pipelines)
- ✓ Integration with big data and analytics tools
- ✓ Future trends in Murex architecture