

# Emerson Movicon NExT Introduction 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

Emerson Movicon NExT Introduction Training by Multisoft Systems is designed to provide a solid foundation in modern industrial automation visualization and control systems. Emerson Movicon NExT is a powerful platform used for developing advanced HMI (Human Machine Interface) and SCADA (Supervisory Control and Data Acquisition) applications, enabling real-time monitoring and control of industrial processes.

## **Module 1: Introduction to Movicon NExT & Industrial Automation**

- ✓ Overview of HMI and SCADA systems
- ✓ Introduction to Emerson Movicon NExT
- ✓ Architecture and key features of Movicon NExT
- ✓ Industry applications and use cases
- ✓ Installation and system requirements

## **Module 2: Project Development & Environment Setup**

- ✓ Creating a new Movicon NExT project
- ✓ Understanding the development interface
- ✓ Project structure and navigation
- ✓ Resource management and configuration
- ✓ Managing workspaces and settings

## **Module 3: Graphics & HMI Screen Design**

- ✓ Designing HMI screens and layouts
- ✓ Using symbols, templates, and objects
- ✓ Animations and dynamic properties
- ✓ Navigation between screens
- ✓ Best practices for user-friendly interfaces

## **Module 4: Data Acquisition & Communication**

- ✓ Tag creation and management
- ✓ Connecting with PLCs and devices
- ✓ Communication protocols overview
- ✓ Real-time data acquisition configuration
- ✓ OPC UA and device integration basics

## Module 5: Alarm Management & Events

- ✓ Configuring alarms and events
- ✓ Alarm types and priorities
- ✓ Alarm visualization and acknowledgment
- ✓ Event logging and monitoring
- ✓ Best practices for alarm handling

## Module 6: Data Logging, Trends & Reporting

- ✓ Setting up data logging
- ✓ Historical data management
- ✓ Creating trend charts and graphs
- ✓ Generating reports
- ✓ Data analysis for performance monitoring

## Module 7: Scripting & Logic Implementation

- ✓ Introduction to scripting in Movicon NExT
- ✓ Creating automation logic and workflows
- ✓ Event-driven scripting
- ✓ Basic troubleshooting using scripts

## Module 8: Security & User Management

- ✓ User roles and access control
- ✓ Authentication and authorization
- ✓ Data security practices
- ✓ Managing users and permissions

## Module 9: IoT Integration & Connectivity

- ✓ Introduction to Industrial IoT
- ✓ Cloud connectivity concepts

- ✓ Integrating external databases and APIs
- ✓ Real-time remote monitoring setup

## **Module 10: Deployment & Project Execution**

- ✓ Testing and debugging projects
- ✓ Project deployment on runtime environment
- ✓ Backup and restore procedures
- ✓ Maintenance and updates
- ✓ Best practices for scalable SCADA solutions

## **Module 11: Real-Time Project & Case Study**

- ✓ Building a complete HMI/SCADA application
- ✓ Industrial use case implementation
- ✓ Troubleshooting real-time scenarios
- ✓ Performance optimization techniques