

Emerson Ovation DCS 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 Ovation DCS Training by Multisoft Systems is designed to help professionals gain practical knowledge of distributed control systems used in power plants and process industries. The training covers the fundamentals and advanced functionalities of Emerson Ovation DCS, including system architecture, controller configuration, HMI operations, alarm management, graphics development, process monitoring, and troubleshooting techniques.

Module 1: Introduction to DCS & Ovation System

- ✓ Basics of Distributed Control Systems (DCS)
- ✓ Overview of Ovation Architecture
- ✓ Key Components: Controllers, I/O, Workstations
- ✓ Applications in Power Plants and Process Industries

Module 2: Ovation System Architecture & Hardware

- ✓ System Network and Communication
- ✓ Controllers and Redundancy Concepts
- ✓ I/O Subsystems and Field Devices
- ✓ Workstations and Servers Configuration

Module 3: Ovation Engineering Tools

- ✓ Ovation Engineering Environment Overview
- ✓ Database Configuration and Tag Management
- ✓ Graphics Builder and Display Creation
- ✓ Control Logic Configuration

Module 4: Human Machine Interface (HMI)

- ✓ Operator Interface Navigation
- ✓ Alarm Management and Event Handling
- ✓ Trends, Logs, and Historical Data
- ✓ Faceplates and Custom Displays

Module 5: Control Strategies & Logic Development

- ✓ Process Control Fundamentals
- ✓ PID Control and Loop Tuning
- ✓ Sequential Control and Interlocks
- ✓ Function Block Diagram (FBD) Configuration

Module 6: Power Plant Automation Concepts

- ✓ Boiler, Turbine, and Generator Control
- ✓ Balance of Plant (BOP) Systems
- ✓ Load Management and Performance Monitoring
- ✓ Safety and Protection Systems

Module 7: System Installation & Commissioning

- ✓ System Setup and Configuration
- ✓ Hardware Installation Basics
- ✓ System Testing and Validation
- ✓ Commissioning Procedures

Module 8: Troubleshooting & Maintenance

- ✓ Fault Diagnosis and System Errors
- ✓ Alarm Analysis and Root Cause Identification
- ✓ Preventive and Corrective Maintenance
- ✓ Backup and Restore Procedures

Module 9: Advanced Features & Integration

- ✓ Redundancy and High Availability
- ✓ Integration with SCADA/PLC Systems
- ✓ Cybersecurity Basics in DCS
- ✓ Performance Optimization Techniques