

Emerson Ovation DCS

COURSE CONTENT

GET IN TOUCH



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About Multisoft

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About Course

Emerson Ovation DCS Training is designed to provide engineers and automation professionals with practical knowledge of Emerson's Ovation Distributed Control System used in power generation and process industries. The course covers system architecture, controllers, HMI development, graphics, alarms, historical data, networking, control strategies, diagnostics, and maintenance. Participants gain hands-on experience configuring, operating, and troubleshooting Ovation systems while learning industry best practices for reliable and efficient plant automation.

Module 1: Introduction to Emerson Ovation DCS

- ✓ Overview of Distributed Control Systems
- ✓ Emerson Ovation Platform Overview
- ✓ System Components
- ✓ Industry Applications
- ✓ Engineering Environment

Module 2: Ovation System Architecture

- ✓ System Architecture
- ✓ Controllers and I/O Subsystems
- ✓ Workstations and Servers
- ✓ Redundancy Concepts
- ✓ System Communication

Module 3: Controller Engineering and Configuration

- ✓ Controller Configuration
- ✓ Control Modules
- ✓ Continuous and Sequential Control
- ✓ Logic Development
- ✓ Controller Testing
- ✓ Commissioning Basics

Module 4: HMI and Operator Interface Development

- ✓ Graphic Display Development
- ✓ Process Mimics
- ✓ Faceplates
- ✓ Operator Navigation
- ✓ Display Standards

Module 5: Process Control Strategies

- ✓ PID Control
- ✓ Cascade Control
- ✓ Feedforward Control
- ✓ Interlocks
- ✓ Sequence Control
- ✓ Advanced Control Concepts

Module 6: Alarm, Event, and Historian Management

- ✓ Alarm Configuration
- ✓ Alarm Prioritization
- ✓ Event Management
- ✓ Historical Data Collection
- ✓ Trend Displays
- ✓ Reporting

Module 7: Industrial Networking and Communication

- ✓ Network Architecture
- ✓ Ethernet Communication
- ✓ OPC Connectivity
- ✓ Modbus Integration
- ✓ Third-Party System Integration

Module 8: Security and System Administration

- ✓ User Management
- ✓ Role-Based Access
- ✓ Security Configuration
- ✓ System Administration
- ✓ Backup and Recovery

Module 9: Diagnostics and Troubleshooting

- ✓ System Diagnostics
- ✓ Controller Health Monitoring
- ✓ Communication Diagnostics
- ✓ Fault Analysis
- ✓ Performance Monitoring
- ✓ Troubleshooting Best Practices

Module 10: Maintenance and System Lifecycle Management

- ✓ Preventive Maintenance
- ✓ Software Updates
- ✓ Configuration Management
- ✓ System Expansion
- ✓ Lifecycle Planning

Module 11: Performance Optimization and Reliability

- ✓ System Performance Monitoring
- ✓ Redundancy Validation
- ✓ Availability Improvement
- ✓ Optimization Techniques
- ✓ Operational Best Practices

Module 12: Industrial Implementation Project

- ✓ End-to-End DCS Configuration
- ✓ Controller Engineering
- ✓ HMI Development
- ✓ Alarm and Historian Setup
- ✓ Testing and Commissioning
- ✓ Real-World Power Plant Case Study