

# Schneider Invensys 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

Schneider Invensys DCS Training by Multisoft Systems is designed to help professionals develop expertise in Distributed Control System (DCS) technologies used in modern industrial automation environments. The training focuses on process control, plant automation, system architecture, controller configuration, HMI operations, SCADA integration, alarm management, and real-time monitoring techniques used across industries such as oil & gas, power generation, chemicals, pharmaceuticals, and manufacturing.

## Module 1: Introduction to DCS Systems

- ✓ Fundamentals of Distributed Control Systems
- ✓ Comparison with PLC and SCADA
- ✓ Industrial automation overview
- ✓ Introduction to Foxboro DCS

## Module 2: System Architecture

- ✓ Overview of Foxboro DCS
- ✓ Controllers, I/O modules, and field devices
- ✓ Network architecture and communication
- ✓ Redundancy and reliability concepts

## Module 3: Control Strategy Configuration

- ✓ Process control fundamentals (PID loops)
- ✓ Control block configuration
- ✓ Logic development and sequencing
- ✓ Loop tuning techniques

## Module 4: HMI and Operator Interface

- ✓ HMI screen development
- ✓ Graphics and visualization
- ✓ Alarm and event display
- ✓ Operator control functions

## Module 5: Alarm Management & Data Handling

- ✓ Alarm configuration and prioritization
- ✓ Event logging and reporting
- ✓ Historical data storage
- ✓ Trend analysis

## Module 6: Integration & Communication

- ✓ Field device integration
- ✓ Communication protocols (Modbus, OPC, etc.)
- ✓ Third-party system integration
- ✓ Data exchange and interoperability

## Module 7: System Maintenance & Troubleshooting

- ✓ Fault detection and diagnostics
- ✓ System health monitoring
- ✓ Backup and restore procedures
- ✓ Preventive maintenance

## Module 8: Advanced Concepts

- ✓ Redundant system design
- ✓ Cybersecurity in DCS
- ✓ Performance optimization
- ✓ Real-time plant simulation