MaxDNA 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

MaxDNA DCS Training by Multisoft Systems is designed to provide professionals with in-depth knowledge and practical expertise in distributed control systems used across modern industries. This training covers every essential aspect of the MaxDNA platform, including system architecture, engineering tools, controller configuration, communication networks, and operator interface.

Module 1: Introduction to DCS & MaxDNA

- ✓ Basics of Distributed Control Systems (DCS)
- ✓ Overview of MaxDNA system and its applications
- ✓ MaxDNA architecture: controllers, servers, operator stations
- ✓ Typical usage in power plants and process industries

Module 2: MaxDNA System Architecture

- ✓ Key system components: MaxStation, MaxHistorian, MaxView, MaxTools
- ✓ Communication setup (Ethernet, fiber optics)
- ✓ Data acquisition flow from sensors to operator stations
- ✓ Redundancy and failover concepts

Module 3: HMI & Operator Interface

- ✓ Navigation in MaxDNA Operator Stations
- ✓ Real-time monitoring: trends and graphics
- ✓ Alarm and event management
- ✓ Operator displays and customization
- ✓ Interlocks and safe operating procedures

Module 4: Control Configuration & Engineering

- ✓ Introduction to MaxTools engineering suite
- ✓ Creating control strategies with function blocks
- ✓ PID loops and logic building
- ✓ Downloading, testing, and modifying control logic online
- ✓ Backup, restore, and version control

Module 5: I/O Configuration & Tag Management

- ✓ I/O architecture (analog & digital I/O)
- ✓ Tag creation and database management

✓ Simulation of I/O channels

✓ Mapping tags to controllers and displays

✓ Troubleshooting I/O issues

Module 6: MaxHistorian & Data Analysis

✓ Configuring historian for long-term data storage

✓ Trend configuration (real-time and historical)

✓ Generating standard and custom reports

✓ Exporting and analysing data with external tools

Module 7: System Administration & Maintenance

✓ User roles and access rights management

✓ System health monitoring and diagnostics

✓ Patch and update management

✓ Backup and recovery procedures

✓ Disaster preparedness and system resilience

Module 8: Cybersecurity in MaxDNA DCS

✓ DCS cybersecurity requirements and standards (e.g., IEC 62443)

✓ Network segmentation and secure zones

✓ Antivirus and patch management practices

✓ Secure remote access and logging

✓ Compliance with plant safety policies