



Consulting and Training | Reach New Heights

**Course Name**

# EMERSON SCADA & Control Systems

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**Sector Name**

Instrumentation & Controls

**Document Type**

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## EMERSON SCADA & Control Systems

### Course Introduction

This training program is designed to provide participants with the knowledge and skills required to proficiently use and control **EMERSON SCADA** systems.

Through a combination of theoretical instruction, hands-on exercises, and practical applications, participants will gain insights into the functionalities, configuration, monitoring, and troubleshooting aspects of **EMERSON SCADA** systems.

Whether you're a novice seeking to enhance your understanding or an experienced professional aiming to refine your skills, this program will equip you with the tools and expertise needed to excel in controlling **SCADA** systems.

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## EMERSON SCADA & Control Systems

### Target Audience

- ✓ SCADA Operators and Technicians
- ✓ Control and Instrumentation Engineers
- ✓ Electrical and Electronics Engineers
- ✓ Maintenance and Field Technicians
- ✓ Process and Operations Engineers
- ✓ System Integrators and Automation Consultants
- ✓ Engineering Students and New Graduates
- ✓ IT Professionals Working in OT Environments

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## EMERSON SCADA & Control Systems

### Learning Objectives

- ✓ Gain a solid understanding of **SCADA** systems, their components, and their role in industrial automation.
- ✓ Master using the features, architecture, and capabilities of **EMERSON SCADA** software.
- ✓ Learn how to install, configure, and customize **EMERSON SCADA** software to suit specific industrial requirements.
- ✓ Acquire the skills to establish communication interfaces with various field devices using different communication protocols.
- ✓ Understand how to monitor industrial processes in real-time and control field devices remotely using **EMERSON SCADA** software.
- ✓ Identify the importance of **SCADA** system security and learn best practices for securing **EMERSON SCADA** installations against cyber threats.
- ✓ Utilize data in **EMERSON SCADA** for analysis, optimization, and generating reports and trends for performance evaluation.
- ✓ Learn routine maintenance tasks, diagnose common issues, and troubleshoot **EMERSON SCADA** systems effectively.
- ✓ Gain insights into implementing redundancy and fault tolerance measures to ensure the reliability and availability of **SCADA** systems.
- ✓ Understand how to integrate **EMERSON SCADA** with other industrial systems to streamline operations and enhance efficiency.

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## EMERSON SCADA & Control Systems

### Course Outline

#### ✓ DAY 01

##### **Introduction to SCADA Systems:**

- ✓ Overview of SCADA systems and their significance in industrial automation.
- ✓ Introduction to EMERSON SCADA software: features, architecture, and capabilities.
- ✓ Understanding the components of a SCADA system (RTUs, PLCs, HMIs, etc.).
- ✓ Basic principles of process control and automation.

##### **EMERSON SCADA Configuration**

- ✓ Installing and setting up EMERSON SCADA software.
- ✓ Configuration of data acquisition from field devices.
- ✓ Creating and configuring tags, alarms, and events.
- ✓ Introduction to scripting and customization options.

##### **SCADA Communication Protocols**

- ✓ Understanding communication protocols commonly used in SCADA systems (Modbus, DNP3, OPC, etc.).
- ✓ Configuring communication interfaces in EMERSON SCADA.
- ✓ Hands-on exercises on establishing communication with various field devices.

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## EMERSON SCADA & Control Systems

### Course Outline

#### ✓ Day 02

##### **SCADA System Monitoring and Control**

- ✓ Real-time monitoring of industrial processes using EMERSON SCADA.
- ✓ Controlling field devices and processes remotely.
- ✓ Implementing logic and control strategies in SCADA.
- ✓ Simulation exercises to practice process control.

##### **SCADA Security and Cybersecurity**

- ✓ Importance of SCADA system security.
- ✓ Common cybersecurity threats and vulnerabilities in SCADA systems.
- ✓ Best practices for securing EMERSON SCADA installations.

##### **Data Analysis and Reporting**

- ✓ Utilizing historical data in EMERSON SCADA for analysis and optimization.
- ✓ Generating reports and trends for performance analysis.
- ✓ Introduction to data analytics tools integrated with SCADA systems.



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## EMERSON SCADA & Control Systems

### Course Outline

#### ✓ Day 03

##### **SCADA System Maintenance and Troubleshooting**

- ✓ Routine maintenance tasks for SCADA systems.
- ✓ Diagnosing and troubleshooting common issues in EMERSON SCADA.
- ✓ Hands-on troubleshooting scenarios and case studies.

##### **Redundancy and High Availability**

- ✓ Implementing redundancy and fault tolerance in SCADA systems.
- ✓ Configuring redundant servers and communication paths in EMERSON SCADA.
- ✓ Failover testing and recovery procedures.

##### **SCADA System Integration**

- ✓ Integrating EMERSON SCADA with other industrial systems (MES, ERP, etc.).
- ✓ Introduction to SCADA system interoperability standards.
- ✓ Hands-on exercises on data exchange between SCADA and other systems.
- ✓ Advanced features and capabilities of EMERSON SCADA.
- ✓ Review of key concepts covered throughout the training program.

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## EMERSON SCADA & Control Systems

### Confirmed Sessions

| FROM           | TO             | DURATION | FEES       | LOCATION        |
|----------------|----------------|----------|------------|-----------------|
| Nov. 29, 2026  | Dec. 1, 2026   | 3 days   | 3250.00 \$ | KSA , Jeddah    |
| Jan. 11, 2027  | Jan. 13, 2027  | 3 days   | 3950.00 \$ | Spain , Madrid  |
| Sept. 21, 2026 | Sept. 23, 2026 | 3 days   | 3250.00 \$ | UAE , Abu Dhabi |
| June 7, 2027   | June 9, 2027   | 3 days   | 3250.00 \$ | UAE , Dubai     |

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