Consulting and Training | Reach New Heights

Course Name

Practical SCADA and Telemetry Systems for Industry Training

Sector Name

Instrumentation & Controls

Document Type

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Practical SCADA and Telemetry Systems for Industry Training

Course Introduction

SCADA (Supervisory Control and Data Acquisition)

SCADA (Supervisory Control and Data Acquisition) and telemetry systems are essential for monitoring and controlling industrial processes. These systems help industries collect, process, and respond to data from remote locations, ensuring efficient and safe operations. Understanding how SCADA and telemetry work is critical for maintaining system reliability, reducing downtime, and improving decision-making. Skilled professionals can use these technologies to optimize performance and enhance process control.

This training program covers practical aspects of SCADA and telemetry systems for industry. The program focuses on system fundamentals, design, installation, data management, and future advancements. Each day presents one key topic with practical subtopics for hands-on learning. Participants will engage in workshops, real-life examples, and case studies to apply the knowledge effectively.

Training Course Methodology

This course is designed to be interactive and participatory, and includes various learning tools to enable the participants to function effectively and efficiently. The course will use sessions, exercises, case applications, and presentations about proven-by-practice methods, new insights, and ideas about the topic and its effects in the corporate world.

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Target Audience

The course is designed for professionals involved in industrial control and automation, including control, electrical, and process engineers, maintenance supervisors, project managers, system integrators, and IT personnel working with SCADA and telemetry systems.

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Learning Objectives

✓ Understand the fundamentals of SCADA and telemetry systems.

✓ Learn how to design and install efficient systems.

✓ Gain skills in data acquisition, processing, and analysis.

✓ Explore system integration and communication protocols.

✓ Identify future trends and improvements in SCADA and telemetry.

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Course Outline

✓ 01 Day One

Introduction to SCADA and Telemetry Systems

- ✓ What is SCADA, and why is it important?
- ✓ Key components of SCADA systems.
- ✓ Overview of telemetry systems and their role.
- ✓ Applications of SCADA in different industries.
- ✓ Common challenges in SCADA and telemetry.
- ✓ Basic system architectures.
- ✓ Importance of security in SCADA systems.

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Course Outline

✓ 02 Day Two

Designing SCADA and Telemetry Systems

- ✓ Steps in designing an efficient SCADA system.
- ✓ Selecting hardware and software components.
- ✓ Key considerations for telemetry system design.
- ✓ Developing system architectures.
- ✓ Integrating sensors and field devices.
- ✓ Designing for scalability and future expansion.
- ✓ Avoiding common design mistakes.

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Course Outline

✓ 03 Day Three

Installation and Configuration

- ✓ Installation procedures for SCADA systems.
- ✓ Setting up telemetry networks.
- ✓ Configuring data acquisition devices.
- ✓ Integrating PLCs and RTUs.
- ✓ Testing system functionality.
- ✓ Troubleshooting common installation issues.
- ✓ Best practices for safe installation.

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Course Outline

✓ 04 Day Four

Data Management and System Integration

- ✓ How data is collected, processed, and stored.
- ✓ Using SCADA software for data analysis.
- ✓ Integrating SCADA with other industrial systems.
- ✓ Understanding communication protocols (like Modbus, OPC).
- ✓ Managing large data sets securely.
- ✓ Ensuring real-time data accuracy.
- ✓ System maintenance for reliable operations.

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Course Outline

✓ 05 Day Five

Future Trends and Advanced Applications

- ✓ Emerging technologies in SCADA and telemetry.
- ✓ Role of IoT in industrial automation.
- ✓ Improving system security against cyber threats.
- ✓ Trends in remote monitoring and control.
- ✓ Using AI for data analysis and system optimization.
- ✓ Preparing systems for future industrial needs.
- ✓ Real-life case studies on advanced SCADA applications

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 6, 2027	Sept. 10, 2027	5 days	4250.00 $	UAE , Abu Dhabi
June 14, 2027	June 18, 2027	5 days	4950.00 $	Spain , Madrid
Oct. 19, 2026	Oct. 23, 2026	5 days	4250.00 $	UAE , Dubai
March 14, 2027	March 18, 2027	5 days	4250.00 $	KSA , Riyadh

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