



*Training Course:
PLC Telemetry and SCADA Technologies*

*18 - 22 July 2027
Cairo (Egypt)*

Training Course: PLC Telemetry and SCADA Technologies

Training Course code: EN6066 From: 18 - 22 July 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

PLC, telemetry, and SCADA technologies form the backbone of modern industrial automation and remote monitoring systems. They enable real-time data acquisition, control, and communication across distributed assets such as pipelines, utilities, and industrial plants. Effective integration of these technologies ensures operational efficiency, reliability, and informed decision-making.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to design, implement, and manage PLC, telemetry, and SCADA systems in industrial and infrastructure environments.

Course Objectives

By the end of this program, participants will be able to:

- Understand the fundamentals of PLC, telemetry, and SCADA systems
- Design and configure PLC-based control systems
- Implement telemetry systems for remote data acquisition
- Integrate PLCs with SCADA platforms
- Apply industrial communication protocols and networking
- Monitor and analyze system data in real-time
- Troubleshoot automation and communication issues
- Ensure system reliability and cybersecurity

Target Audience

This program is designed for:

- Automation and Control Engineers
- Instrumentation Engineers and Technicians
- SCADA and Control Room Operators
- Electrical Engineers in industrial environments
- IT/OT Integration Specialists
- Professionals involved in remote monitoring systems

Outline

Day 1: Fundamentals of PLC and SCADA Systems

- Overview of industrial automation systems
- PLC architecture and components
- Introduction to SCADA systems and telemetry
- System architecture and integration concepts
- Applications in industry and infrastructure

Day 2: PLC Programming and Control Systems

- PLC programming basics Ladder Logic
- I/O configuration and control logic
- Timers, counters, and functions
- Control system design and implementation
- Testing and debugging PLC programs

Day 3: Telemetry Systems and Communication

- Fundamentals of telemetry systems
- Remote Terminal Units RTUs and data acquisition
- Communication protocols Modbus, DNP3, IEC 60870
- Wireless and wired communication systems
- Network design and configuration

Day 4: SCADA Operation and Integration

- SCADA system components and architecture
- HMI design and data visualization
- Alarm management and event handling
- PLC-SCADA integration
- Data logging and reporting

Day 5: Troubleshooting, Security, and Optimization

- Diagnosing system faults and communication issues
- Preventive and corrective maintenance
- Cybersecurity in SCADA and telemetry systems
- Performance optimization and reliability improvement
- Case studies and real-world applications

Registration form on the Training Course: PLC Telemetry and SCADA Technologies

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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