



*Training Course:
PLC & SCADA Training Course*

*18 - 22 April 2027
Cairo (Egypt)*

Training Course: PLC & SCADA Training Course

Training Course code: EN234649 From: 18 - 22 April 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Programmable Logic Controllers PLC and Supervisory Control and Data Acquisition SCADA systems are essential technologies in modern industrial automation, enabling real-time control, monitoring, and optimization of processes. Mastery of PLC and SCADA systems is critical for improving operational efficiency, reliability, and safety across industries.

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

Course Objectives

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

- Understand the fundamentals of PLC and SCADA systems
- Develop and implement PLC programs using standard programming languages
- Configure and operate SCADA systems for real-time monitoring
- Integrate PLCs with SCADA and field devices
- Interpret control logic, I/O configurations, and system architecture
- Troubleshoot automation and control system issues
- Apply industrial communication protocols Modbus, Profibus, Ethernet/IP
- Improve process control and system performance

Target Audience

This program is designed for:

- Electrical and Automation Engineers
- Instrumentation and Control Engineers
- Maintenance and Operations Personnel
- SCADA and Control Room Operators
- Technicians involved in industrial automation
- Professionals seeking skills in PLC and SCADA systems

Outline

Day 1: Fundamentals of PLC Systems

- Introduction to PLC concepts and architecture
- PLC components and hardware
- Input/Output I/O modules and wiring
- PLC programming basics Ladder Logic
- Safety considerations in automation

Day 2: PLC Programming and Control Logic

- Advanced PLC programming techniques
- Timers, counters, and functions
- Sequential control and logic design
- Program testing and debugging
- Best practices in PLC programming

Day 3: SCADA Systems and Architecture

- Introduction to SCADA systems
- SCADA components and architecture
- Human-Machine Interface HMI design
- Data acquisition and visualization
- Alarm management and event handling

Day 4: Integration and Communication

- PLC-SCADA integration
- Industrial communication protocols Modbus, Profibus, Ethernet/IP
- Network configuration and data exchange
- System interoperability
- Cybersecurity considerations

Day 5: Troubleshooting, Maintenance, and Optimization

- Diagnosing PLC and SCADA faults
- Preventive and corrective maintenance
- System performance optimization
- Real-time monitoring and control improvement
- Case studies and real-world applications

Registration form on the Training Course: PLC & SCADA Training Course

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

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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