



*Training Course:  
PLC & SCADA Training Course*

*8 - 12 September 2024*

*Dubai (UAE)*

*Residence Inn by Marriott Sheikh Zayed Road, Dubai*

## Training Course: PLC & SCADA Training Course

Training Course code: EN234649 From: 8 - 12 September 2024 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 4980 € Euro

### Introduction

This training program is structured to provide the delegates with up to date information on PLCs and SCADA's application to the automation phase and the process control for factories and plants. This program is acceptable for people who have little or no knowledge relevant to PLC and SCADA but are willing to understand the aspects of PLC installation and the SCADA programming concepts. The objective of this program is to assist you with the correct planning, programming, and installation of a PLC.

Upon completion of this course, you should be able to troubleshoot a previously operational ControlLogix® system and restore normal operation.

### Course Objectives of PLC & SCADA

You will have the opportunity to develop and practice these skills by:

▣ Learning basic concepts and terminology used with:-ControlLogix system hardware-Studio 5000 Logix Designer® application

▣ Practicing a systematic strategy for diagnosing and troubleshooting problems:

-Configuration issues

-Electrical noise

-Faulty/malfunctioning field devices

-Controller I/O, or other hardware issues

▣ Performing hands-on exercises All Logix5000 systems use the same control engine; therefore, tasks are similar. You will see applicable references for other systems

### Target Audience of PLC & SCADA

Personnel who can attend this course are:

- IT personnel
- Technicians
- Plant engineers
- Project engineers
- Maintenance supervisors
- Design engineers
- Consulting engineers
- Electrical engineers

- Process control engineers
- Control systems sales engineers
- Control and instrumentation engineers

## Course outlines of PLC & SCADA

### Day 1

- Locating ControlLogix Components
- Navigating through the Studio 5000 Logix Designer Application
- Connecting a Computer to a Communications Network
- Downloading and Going Online
- Locating I/O Tags and Devices
- Interpreting Studio 5000 Logix Designer Project Organization and Execution

### Day 2

- Interpreting Ladder Logic Structure
- Locating and Editing Tag Values
- Interpreting Bit Instructions
- Interpreting Frequently Used Instructions
- Interpreting Arrays

### Day 3

- Interpreting Tags of User-Defined Data Types
- Searching for Project Components
- Integrated Practice -Interpreting a Basic Project
- Forcing I/O and Toggling Bits
- Troubleshooting Digital I/O Problems

### Day 4

- Troubleshooting Analog I/O Problems
- Troubleshooting Remote I/O Problems
- Updating Logix5000 Firmware
- Troubleshooting Controller Problems
- Troubleshooting Power Supply Problems

### Day 5

- Analyzing and Troubleshooting a System Using a Trend Chart
- Integrated Practice-Troubleshooting Basic Projects
- Editing Ladder Logic Online
- Managing Studio 5000 Logix Designer Project Files
- Documenting and Printing Components
- Troubleshooting Noise-Related Problems

## 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

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Company Information

Company Name: .....  
 Address: .....  
 City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....  
 Position: .....  
 Telephone / Mobile: .....  
 Personal E-Mail: .....  
 Official E-Mail: .....

### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
- Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
3 Oudai street, Aldouki,  
Giza, Giza Governorate,  
Egypt.