Global Horizon
TRAINING CENTER

Training Course:
PLC ALLEN BRADLEY 5000

21 - 25 March 2027
Istanbul (Turkey)
DoubleTree by Hilton Istanbul Esentepe

Training Course:
PLC ALLEN BRADLEY 5000

Training Course code: SC235525 From: 21 - 25 March 2027 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 6300 Euro

Introduction

This comprehensive course on Programmable Logic Controllers PLC with a focus on Allen Bradley 5000 series is designed to equip participants with essential skills to work with modern industrial control systems. The course is designed by Global Horizon Training Center, known for its cutting-edge technical training programs. The Allen Bradley 5000 series is a widely used PLC in industrial automation, and mastering its functionality will enhance your ability to maintain and troubleshoot automated systems effectively.

Objectives

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

- Understand the architecture and functionality of the Allen Bradley 5000 series PLC.
- Configure, program, and troubleshoot PLC systems using the RSLogix 5000 software.
- Develop and modify ladder logic diagrams and other control systems programming languages.
- Implement advanced features like data handling, communication, and safety features.
- Integrate Allen Bradley PLCs into a wider automated system.
- Perform diagnostic procedures to ensure optimal operation and minimize downtime.

Target Audience

This course is ideal for:

- Automation engineers and technicians.
- Maintenance personnel involved with PLC systems.
- Control systems engineers.
- Electrical engineers.
- Anyone interested in expanding their knowledge in industrial automation and PLC systems.

Outline

Day 1: Introduction to PLC and Allen Bradley 5000 Series

- Overview of PLC systems and their role in automation.
- Introduction to the Allen Bradley 5000 series architecture.
- Hardware configuration and setup.
- Overview of RSLogix 5000 software.
- Hands-on practice: Basic system setup and configuration.

Day 2: Programming with RSLogix 5000

- Introduction to programming concepts in RSLogix 5000.
- Developing ladder logic diagrams.
- Implementing basic I/O operations.
- Memory management and data types.
- Hands-on practice: Creating and modifying simple PLC programs.

Day 3: Advanced Programming Features

- Introduction to structured text and function block diagrams.
- Utilizing timers, counters, and comparison functions.
- Data handling and storage.
- Event-driven programming and state machines.
- Hands-on practice: Implementing advanced logic in PLC programs.

Day 4: Communication and Networking

- Overview of communication protocols in Allen Bradley systems Ethernet/IP, ControlNet, etc..
- Setting up communication between multiple PLCs.
- Integrating Allen Bradley PLCs with other devices HMIs, SCADA.
- Troubleshooting communication issues.
- Hands-on practice: Configuring and testing communication networks.

Day 5: Diagnostics, Troubleshooting, and Safety Features

- Diagnostic tools and procedures in RSLogix 5000.
- Troubleshooting common PLC errors.
- Implementing safety features in PLC programs emergency stops, alarms.
- Preventive maintenance strategies for PLC systems.
- Hands-on practice: Troubleshooting and optimizing system performance.

Registration form on the Training Course:
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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information

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Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
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Payment Method

☐ Please find enclosed a cheque made payable to Global Horizon

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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.