



Training Course:
PLC ALLEN BRADLEY 5000

24 - 28 March 2025
Barcelona (Spain)
Grupotel Gran Via 678

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Training Course code: SC235525 From: 24 - 28 March 2025 Venue: Barcelona (Spain) - Grupotel Gran Via 678 Training Course Fees: 6000 € 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:

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

Methodology

This course will be delivered using a blend of:

- Interactive lectures with real-world case studies.
- Hands-on practice sessions with Allen Bradley 5000 PLCs and simulation software.
- Group discussions to explore challenges faced in industrial automation.
- Practical troubleshooting exercises.
- Live demonstrations of PLC operations.

Organizational Impact

This course will bring the following benefits to your organization:

1. Improved ability to diagnose and troubleshoot PLC issues, reducing downtime.
2. Enhanced team knowledge of automation systems, leading to more efficient system designs.
3. Better operational efficiency through the use of advanced PLC features.
4. Increased equipment uptime due to improved maintenance strategies.
5. Reduced costs associated with external support for PLC programming and troubleshooting.

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: PLC ALLEN BRADLEY 5000

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