



*Training Course:  
Mark VIe PLC Control*

*18 - 22 August 2024  
Doha (Qatar)*

## Training Course: Mark VIe PLC Control

Training Course code: EN235446 From: 18 - 22 August 2024 Venue: Doha (Qatar) - Training Course Fees: 5100 € Euro

### Introduction

The Mark VIe PLC Control training program is designed to equip experienced professionals with an in-depth understanding of the Mark VIe PLC control system. This comprehensive 5-day training program delves into advanced system architecture, sophisticated programming techniques, complex system integration, and high-level maintenance and troubleshooting strategies. Participants will gain the expertise needed to manage, optimize, and troubleshoot Mark VIe PLC systems effectively, ensuring maximum efficiency and reliability.

### Objectives

- **Enhance Understanding of Advanced System Architecture:**
  - Gain a detailed understanding of the Mark VIe PLC system architecture and components.
  - Learn about advanced communication networks and protocols, redundancy, and system reliability.
- **Master Advanced Software Configuration and Management:**
  - Deepen knowledge of system setup, configuration, and project management.
  - Utilize advanced features and utilities of the Mark VIe software suite.
- **Develop Complex Programming Skills:**
  - Implement sophisticated control strategies using various programming languages.
  - Utilize advanced debugging tools and techniques to identify and resolve complex programming issues.
- **Optimize System Integration and Diagnostics:**
  - Ensure seamless communication and data exchange with other control systems and devices.
  - Proactively monitor and optimize system performance using high-level diagnostic tools.
- **Implement Advanced Maintenance and Troubleshooting Techniques:**
  - Develop and execute predictive and preventive maintenance strategies.
  - Utilize advanced troubleshooting methodologies to resolve complex hardware and software issues.

## Target Audience

This training program is tailored for experienced professionals who have a foundational understanding of PLC systems and are looking to deepen their expertise in Mark VIe PLC control systems. The ideal participants include:

- Automation Engineers: Seeking to enhance their skills in advanced PLC programming, system integration, and maintenance.
- Control System Engineers: Aiming to gain a deeper understanding of Mark VIe PLC architecture and optimize system performance.
- Maintenance Engineers: Looking to implement advanced maintenance strategies and troubleshoot complex issues.
- Technical Managers and Supervisors: Responsible for overseeing PLC system operations and ensuring system reliability and efficiency.
- Experienced Technicians: Wanting to upgrade their knowledge and skills in high-level diagnostics and system integration.

## Training Program Outline

### Day 1: Advanced System Architecture and Components

- In-depth System Architecture
  - Detailed analysis of Mark VIe PLC architecture
  - Advanced hardware components and their functions
- Communication Networks and Protocols
  - Advanced communication protocols Ethernet, Modbus, Profibus
  - Network topology and design considerations
- Redundancy and Reliability
  - Implementing redundancy in Mark VIe PLC systems
  - Strategies for ensuring high system reliability

### Day 2: Advanced Software Configuration and Management

- Advanced System Configuration
  - Detailed system setup and configuration
  - Complex project management and organization
- Software Tools and Utilities
  - In-depth use of Mark VIe software suite
  - Utilizing advanced features and utilities for system management
- Customizing System Interfaces
  - Creating and managing customized user interfaces
  - Advanced visualization and data representation

### Day 3: Complex Programming and Logic Development

- Advanced Programming Techniques
  - Complex programming concepts in Ladder Logic, Function Block Diagrams, and Structured Text
  - Integration of multiple programming languages in a single project
- Developing Advanced Control Logic
  - Implementing sophisticated control strategies
  - Using advanced functions and function blocks
- High-Level Diagnostics and Debugging
  - Advanced debugging tools and techniques
  - Identifying and resolving complex programming issues

### Day 4: System Integration and High-Level Diagnostics

- Integrating Mark VIe PLC with Complex Systems
  - Advanced data exchange and integration strategies
  - Ensuring seamless communication with other control systems and devices
- High-Level Diagnostic Techniques
  - Utilizing advanced diagnostic tools for system analysis

- Proactive system monitoring and performance optimization
- Security and Compliance
  - Implementing robust security measures
  - Ensuring compliance with industry standards and regulations

#### Day 5: Advanced Maintenance and Troubleshooting

- Advanced Maintenance Strategies
  - Implementing predictive and preventive maintenance at an advanced level
  - Using data analytics for maintenance optimization
- High-Level Troubleshooting
  - Resolving complex hardware and software issues
  - Advanced troubleshooting methodologies and case studies
- System Upgrades and Enhancements
  - Planning and executing system upgrades
  - Integrating new technologies and features into existing systems
- Review and Advanced Q&A
  - Recap of advanced topics covered
  - Addressing advanced participant questions
  - Evaluating training effectiveness and participant feedback

## Registration form on the Training Course: Mark VIe PLC Control

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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  
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place.

Fax your completed  
registration  
form to: +20233379764

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

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to: Global Horizon  
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