Training Course:
Mark VIe PLC Control

26 - 30 October 2025
Sharm El-Sheikh (Egypt)
Sheraton Sharm Hotel

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Training Course code: EN235446 From: 26 - 30 October 2025 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel
Training Course Fees: 4850 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:
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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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☐ Please find enclosed a cheque made payable to Global Horizon

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