



*Training Course:
HVAC/R Building Automation Systems (BAS)*

*25 - 29 July 2027
Dubai (UAE)*

Training Course: HVAC/R Building Automation Systems (BAS)

Training Course code: EN234668 From: 25 - 29 July 2027 Venue: Dubai (UAE) - Training Course Fees: 5830 € Euro

Introduction

Building Automation Systems BAS play a critical role in modern HVAC/R operations by enabling centralized monitoring, control, and optimization of building systems. Integrating HVAC/R with BAS enhances energy efficiency, improves occupant comfort, and ensures reliable system performance through real-time data and automation.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to design, operate, and manage HVAC/R Building Automation Systems in accordance with industry standards and best practices.

Course Objectives

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

- Understand the fundamentals of HVAC/R systems and BAS integration
- Identify BAS components and system architecture
- Configure and operate HVAC/R control systems
- Monitor and analyze system performance using BAS tools
- Apply control strategies for energy efficiency and optimization
- Troubleshoot BAS and HVAC/R system issues
- Ensure system interoperability and communication
- Enhance building performance through automation

Target Audience

This program is designed for:

- HVAC and Mechanical Engineers
- Building Automation and Control Engineers
- Facility and Energy Managers
- Maintenance and Operations Personnel
- Electrical and Instrumentation Engineers

- Technicians involved in BAS and HVAC systems

Outline

Day 1: Fundamentals of HVAC/R and BAS

- Overview of HVAC/R systems and applications
- Introduction to Building Automation Systems BAS
- BAS architecture and components
- Sensors, actuators, and controllers
- System integration concepts

Day 2: BAS Control Systems and Communication Protocols

- Control strategies for HVAC/R systems
- Programmable logic controllers PLC and DDC systems
- Communication protocols BACnet, Modbus, LonWorks
- Data acquisition and system integration
- Network architecture and configuration

Day 3: System Operation and Monitoring

- BAS interfaces and dashboards
- Real-time monitoring and data visualization
- Alarm management and event handling
- Performance tracking and reporting
- Energy monitoring and analysis

Day 4: Troubleshooting and Maintenance

- Diagnosing BAS and HVAC/R issues
- Fault detection and system diagnostics
- Preventive and predictive maintenance
- System testing and calibration
- Documentation and reporting

Day 5: Optimization, Energy Efficiency, and Smart Buildings

- Energy optimization strategies using BAS
- Demand control ventilation and load management
- Integration with smart building technologies
- Sustainability and green building practices
- Case studies and real-world applications

Registration form on the Training Course: HVAC/R Building Automation Systems (BAS)

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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