Global Horizon
TRAINING CENTER

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

23 - 27 August 2026
Sharm El-Sheikh (Egypt)
Sheraton Sharm Hotel

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

Training Course code: EN234668 From: 23 - 27 August 2026 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel
Training Course Fees: 5100 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

Global Horizon
TRAINING CENTER

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

Training Course code: EN234668 From: 23 - 27 August 2026 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel Training Course Fees: 5100 Euro

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 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.