



*Training Course:  
Niagara 4: Advanced Building Automation &  
Integration*

*14 - 18 June 2026*

*Cairo (Egypt)*

*Holiday Inn & Suites Cairo Maadi, an IHG Hotel*

## Training Course: Niagara 4: Advanced Building Automation & Integration

Training Course code: EN236474 From: 14 - 18 June 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4410 € Euro

### Introduction

The **Niagara 4** platform, developed by Tridium, is a leading framework for building automation, IoT integration, and smart infrastructure management. It enables seamless connectivity between diverse systems such as HVAC, lighting, energy management, and security through a unified interface.

This training program is designed by [Global Horizon Training Center](#) to provide participants with comprehensive knowledge and practical understanding of Niagara 4 architecture, tools, and applications. The program focuses on configuring, integrating, and optimizing building automation systems while ensuring cybersecurity, scalability, and operational efficiency.

Participants will gain hands-on exposure to real-world scenarios, enabling them to effectively deploy and manage smart building solutions using Niagara 4.

### Course Objectives

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

- Understand the architecture and core components of Niagara 4
- Configure and manage stations, networks, and devices
- Integrate multiple protocols BACnet, Modbus, LonWorks, etc.
- Develop graphical user interfaces and dashboards
- Implement alarm management and data logging strategies
- Apply cybersecurity best practices within Niagara systems
- Troubleshoot and optimize building automation performance
- Deploy scalable and energy-efficient smart building solutions

### Target Audience

This program is designed for:

- Building Automation Engineers
- HVAC Engineers and Technicians
- Electrical and Mechanical Engineers
- Facility Management Professionals
- System Integrators and IoT Specialists
- Maintenance and Operations Engineers
- IT professionals involved in smart building systems

## Outline

### Day 1: Niagara 4 Fundamentals & Architecture

- Overview of Niagara Framework and its evolution
- Niagara 4 architecture: Stations, JACE, Supervisor
- Workbench environment: Navigation and tools
- Licensing and platform setup
- Understanding drivers and communication protocols
- Introduction to system integration concepts

### Day 2: System Configuration & Integration

- Setting up stations and devices
- Configuring networks BACnet, Modbus, etc.
- Device discovery and point mapping
- Tagging and data modeling in Niagara 4
- Integration of HVAC and energy systems
- Practical exercises on system setup

### Day 3: Graphics, Visualization & User Interface

- Creating PX graphics and dashboards
- User interface design principles for operators
- Data visualization and real-time monitoring
- Customizing views and navigation trees
- Reporting tools and analytics basics
- Enhancing user experience in smart buildings

### Day 4: Alarming, Control Logic & Cybersecurity

- Alarm configuration and management strategies
- Histories and data logging techniques
- Introduction to control logic Wire Sheet programming
- Scheduling and automation workflows
- Cybersecurity fundamentals in Niagara 4
- User roles, permissions, and secure access

### Day 5: Optimization, Troubleshooting & Deployment

- System diagnostics and troubleshooting techniques
- Performance tuning and optimization
- Backup, restore, and system maintenance
- Energy efficiency strategies using Niagara
- Deployment best practices for large-scale systems
- Final case study: End-to-end smart building integration

## Registration form on the Training Course: Niagara 4: Advanced Building Automation & Integration

**Training Course code:** EN236474 **From:** 14 - 18 June 2026 **Venue:** Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel **Training Course Fees:** 4410 € 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.