



*Training Course:  
Essentials of Data Center Operations: Uptime,  
Safety, and Efficiency*

*12 - 16 July 2026  
Istanbul (Turkey)  
DoubleTree by Hilton Istanbul Esentepe*

# Training Course: Essentials of Data Center Operations: Uptime, Safety, and Efficiency

Training Course code: IT236102 From: 12 - 16 July 2026 Venue: Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe Training Course Fees: 6300 € Euro

## Introduction

This training program, designed by Global Horizon Training Center, is tailored to provide participants with a solid foundation in the core operational aspects of data center management. With the ever-growing demand for uninterrupted digital services, the efficiency, uptime, and safety of data centers have become mission-critical. This program offers a comprehensive understanding of day-to-day operations, critical facility management, safety protocols, and best practices to ensure smooth, efficient, and secure data center environments. Participants will gain hands-on insights into maintaining operational excellence while ensuring compliance with global standards.

## Objectives

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

- Understand the key components and functions of modern data center operations.
- Apply best practices to ensure maximum uptime and operational reliability.
- Implement effective safety protocols and incident response procedures.
- Manage power, cooling, and facility systems efficiently.
- Conduct routine monitoring, inspection, and maintenance to prevent failures.
- Optimize data center workflow, capacity planning, and resource usage.
- Align operations with international data center standards and frameworks.

## Target Audience

This training is ideal for:

- Data Center Operations Staff and Technicians
- Facility and Infrastructure Engineers
- IT Operations Managers
- System Administrators and Network Engineers
- Data Center Supervisors and Shift Leads
- Health and Safety Officers working in technical environments

- Anyone responsible for managing uptime, safety, or operations in data centers

## Course Outline

### Day 1: Introduction to Data Center Operations and Infrastructure

- Overview of data center types and architectures
- Roles and responsibilities in data center operations
- Critical systems: Power, cooling, networking, and security
- Understanding the data center lifecycle
- Key performance metrics: Uptime, PUE, SLA

### Day 2: Ensuring Uptime and Business Continuity

- Uptime Institute Tier Standards and design principles
- Redundancy levels N, N+1, 2N and high availability planning
- Routine maintenance and preventive strategies
- Monitoring systems and alarm protocols
- Business continuity planning and DR alignment

### Day 3: Safety and Risk Management in Data Centers

- Health & safety standards in critical environments
- Fire detection and suppression systems
- Access control and physical security
- Electrical hazards, ESD control, and personal protective equipment PPE
- Incident management and emergency response protocols

### Day 4: Power, Cooling, and Environmental Control

- Understanding UPS systems, generators, and backup power
- Cooling strategies: CRAC units, hot/cold aisle containment, liquid cooling
- Environmental monitoring temperature, humidity, airflow

- Energy efficiency and green data center practices
- Maintenance of electrical and HVAC systems

#### Day 5: Operational Excellence and Compliance

- Daily checklists and operations documentation
- Capacity planning and resource management
- Change management and service continuity
- Industry standards: ISO 27001, TIA-942, ANSI/BICSI
- Final group activity: Simulating a fault scenario and recovery

## Registration form on the Training Course: Essentials of Data Center Operations: Uptime, Safety, and Efficiency

**Training Course code:** IT236102 **From:** 12 - 16 July 2026 **Venue:** Istanbul (Turkey) - DoubleTree by Hilton Istanbul Esentepe **Training Course Fees:** 6300 € 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.