

## Data Center Management

*Cairo (Egypt)*

*12 - 16 October 2025*

UK Traininig

# PARTNER



# Data Center Management

Code: IT28 From: 12 - 16 October 2025 City: Cairo (Egypt) Fees: 4000 Pound

## Introduction

Data centers are the backbone of modern IT infrastructure, driving everything from cloud computing to big data analytics. Efficient data center management ensures the seamless operation of critical systems, supporting organizational growth and technological advancements. This 5-day course provides participants with the knowledge and practical skills to design, manage, and maintain high-performance, sustainable data centers. It emphasizes data center management solutions, operations, and emerging trends in data center efficiency and sustainability.

Participants will learn about data center technologies, best practices, and the tools necessary to optimize operations, ensuring uptime, scalability, and security.

## Course Objectives

By the end of this course, participants will:

- Understand Data Center Fundamentals: Learn the core principles of data center design and management.
- Explore Data Center Technologies: Discover cutting-edge tools, equipment, and solutions driving efficiency.
- Master Operations and Maintenance: Gain practical skills in managing daily data center operations and troubleshooting.
- Focus on Sustainability: Learn strategies for improving data center sustainability and energy efficiency.
- Develop Scalable Solutions: Understand how to design and manage scalable, future-proof data centers.

## Course Outlines

### Day 1: Foundations of Data Center Management

- What is a Data Center? Definition, types, and their role in modern IT infrastructure.
- Core Components of a Data Center: Power systems, cooling, network infrastructure, and storage.
- Data Center Management Basics: Understanding data center management solutions and their applications.
- Key Industry Standards: Overview of standards like TIA-942 and Uptime Institute Tier Classifications.
- Site Selection and Design: Criteria for selecting locations and designing layouts for data center efficiency.

### Day 2: Infrastructure and Technology

- Power Systems: Designing resilient and redundant power setups e.g., UPS systems, generators.
- Cooling Systems: Optimizing cooling for efficiency and preventing hardware overheating.
- Networking: Building robust network connectivity and redundancy for high availability.
- Data Center Security: Physical and digital security measures to safeguard infrastructure.
- Data Storage Solutions: Exploring storage technologies and architectures e.g., SAN, NAS, cloud storage.

### Day 3: Data Center Operations

- Daily Operations and Monitoring: Best practices for maintaining uptime and operational efficiency.
- Capacity Planning: Ensuring scalability to accommodate future growth and demand.
- Incident Management: Troubleshooting common issues to minimize downtime.
- Data Center Maintenance: Developing preventive and corrective maintenance schedules.
- Compliance and Documentation: Managing compliance with industry regulations and maintaining operational records.

### Day 4: Sustainability and Efficiency

- Energy Efficiency in Data Centers: Strategies for reducing power consumption while maintaining performance.
- Green Data Centers: Leveraging renewable energy and sustainable practices to lower environmental impact.
- Smart Systems and Automation: Using IoT and AI to optimize resource utilization and performance.
- Cooling Innovations: Exploring modern cooling solutions like liquid cooling and free air cooling.
- Case Studies: Examples of successful sustainable data centers around the world.

### Day 5: Future-Proofing and Emerging Trends

- Trends in Data Center Technologies: Understanding advancements like edge computing, 5G integration, and quantum computing.
- Hybrid and Cloud Data Centers: Managing hybrid environments and integrating with cloud services.
- Disaster Recovery Planning: Creating robust plans to ensure business continuity during emergencies.
- Project Planning for Data Centers: Fundamentals of project management for building or upgrading data centers.
- Capstone Project: Participants design and present a data center management plan addressing scalability, sustainability, and efficiency.

### Why Attend This Course? Wins & Losses!

- Gain expertise in data center management systems and data center operations.
- Learn to design and manage energy-efficient data centers aligned with modern sustainability goals.
- Acquire skills to troubleshoot and maintain critical IT infrastructure for high availability.
- Stay ahead of industry trends, mastering data center technologies like AI, IoT, and cloud computing.
- Develop a future-proof strategy for scalable data center solutions.

### Conclusion

This Data Center Management Course equips participants with the tools, knowledge, and best practices to design, manage, and maintain modern data centers. By focusing on efficiency, scalability, and sustainability, attendees will be ready to lead their organizations into the future of IT infrastructure.

Whether you are an aspiring data center manager, IT professional, or facility operator, this course offers actionable insights and practical experience to excel in the dynamic world of data center operations.

Join us to ensure your data center systems are resilient, sustainable, and future-ready!





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