

## Certified Data Center Management

*Barcelona (Spain)*

*17 - 28 February 2025*

UK Traininig

# PARTNER



## Certified Data Center Management

Code: IT28 From: 17 - 28 February 2025 City: Barcelona (Spain) Fees: 8600 Pound

### Introduction

In today's rapidly evolving digital landscape, data centers serve as the backbone of modern enterprises, housing critical IT infrastructure and enabling mission-critical operations. Effective management of data centers is essential for ensuring optimal performance, reliability, and security of IT services. This advanced course in certified data center management is designed to provide participants with the latest knowledge, skills, and best practices in managing data center operations. Through a blend of theoretical learning and hands-on exercises, participants will gain insights into industry-leading methodologies and technologies for efficiently managing data center environments.

### Objectives

- Provide participants with a comprehensive understanding of data center management principles, methodologies, and frameworks.
- Equip participants with advanced skills in planning, designing, and operating data center facilities to meet organizational needs and industry standards.
- Explore emerging trends and technologies in data center management, including virtualization, cloud computing, and automation, and their implications for data center operations.
- Foster proficiency in implementing best practices for optimizing data center performance, energy efficiency, and environmental sustainability.
- Develop participants' ability to assess and mitigate risks associated with data center operations, including cybersecurity threats and compliance requirements.
- Enhance participants' knowledge of disaster recovery and business continuity planning strategies to ensure high availability and resilience of data center services.
- Provide hands-on experience with data center management tools, monitoring systems, and real-world case studies to reinforce theoretical concepts and practical skills.
- Prepare participants for professional certifications in data center management, such as Certified Data Center Management Professional CDCMP, through comprehensive coverage of exam topics and practice tests.

### Course Outlines

#### Day 1

##### Introduction to Data Center Management Principles

- Overview of data center management methodologies and frameworks
- Understanding organizational objectives and service level agreements SLAs



- Principles of data center infrastructure, design, and operations

## Day 2

### Planning and Designing Data Center Facilities

- Capacity planning and forecasting for data center growth
- Design considerations for power, cooling, and physical security
- Regulatory compliance and industry standards for data center design

## Day 3

### Operating and Maintaining Data Center Infrastructure

- Best practices for day-to-day operations and maintenance tasks
- Monitoring and managing data center performance and efficiency
- Implementing change management processes and procedures

## Day 4

### Virtualization and Cloud Computing in Data Centers

- Concepts and benefits of server virtualization and software-defined infrastructure
- Integration of cloud services and hybrid cloud architectures in data center environments
- Automation and orchestration tools for managing virtualized and cloud-based workloads

## Day 5

### Energy Efficiency and Environmental Sustainability

- Strategies for improving energy efficiency and reducing carbon footprint in data centers
- Implementing green IT initiatives and renewable energy solutions
- Environmental regulations and industry initiatives for sustainable data center operations

## Day 6

### Cybersecurity and Risk Management

- Threat landscape analysis and risk assessment methodologies
- Implementing security controls and protocols to safeguard data center assets
- Incident response and disaster recovery planning for data center environments

## Day 7

### Business Continuity and Disaster Recovery Planning

- Developing and testing disaster recovery plans and procedures
- High availability architectures and fault-tolerant design principles
- Business impact analysis and recovery time objectives RTOs for critical IT services



## Day 8

### Data Center Automation and Orchestration

- Automation tools and technologies for streamlining data center operations
- Orchestration platforms for provisioning, configuration, and management of IT resources
- DevOps practices and methodologies for accelerating software delivery in data center environments

## Day 9

### Hands-on Lab Exercises and Case Studies

- Practical exercises using data center management tools and monitoring systems
- Real-world case studies and scenarios to apply management principles and troubleshoot issues

## Day 10

### Exam Preparation and Practice Tests

- Review of key concepts and exam topics covered in the course
- Practice tests and mock exams to assess readiness for certification exams
- Exam-taking strategies and tips for success in data center management certifications





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