

Certified Data Center Management

Düsseldorf (Germany)

2 - 13 December 2024

UK Traininig

PARTNER



Certified Data Center Management

Code: IT28 From: 2 - 13 December 2024 City: Düsseldorf (Germany) Fees: 8300 Pound

Introduction

In today's fast-paced digital landscape, data centers form the backbone of enterprise operations, housing critical IT infrastructure and supporting mission-critical services. Effective data center management is essential for ensuring reliable, secure, and optimal performance of IT services. This advanced certified course in data center management is crafted to provide participants with the latest knowledge, skills, and best practices in managing data center operations. Through a combination of theory and hands-on exercises, participants will gain insights into industry-leading methodologies and data management solutions to efficiently operate data center environments.

Course Objectives

- Provide a comprehensive understanding of data center management principles, methodologies, and frameworks.
- Equip participants with advanced skills in planning, designing, and operating data center facilities that align with organizational needs and industry standards.
- Explore emerging trends and technologies in data management services, such as virtualization, cloud computing, and data center automation, and their impact on data center operations.
- Foster proficiency in implementing best practices for optimizing data center performance, energy efficiency, and environmental sustainability.
- Develop skills in assessing and mitigating data center risks, including cybersecurity threats and compliance with regulations.
- Enhance knowledge in disaster recovery and business continuity planning to ensure high availability and resilience.
- Provide hands-on experience with data center management tools, monitoring systems, and real-world case studies.
- Prepare participants for certifications in data center management, such as the Certified Data Center Management Professional CDCMP, through comprehensive exam preparation.

Course Outlines

Day 1: Introduction to Data Center Management Principles

- Overview of data center management frameworks and methodologies
- Understanding organizational objectives and service level agreements SLAs
- Key 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
- Monitoring and managing data center performance and efficiency
- Implementing change management processes and procedures

Day 4: Virtualization and Cloud Computing in Data Centers

- Benefits of server virtualization and software-defined infrastructure
- Integrating cloud services and hybrid cloud architectures
- Automation and orchestration tools for managing virtualized workloads

Day 5: Energy Efficiency and Environmental Sustainability

- Strategies for energy efficiency and reducing carbon footprint
- 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
- Implementing security controls to safeguard data center assets
- Incident response and disaster recovery planning

Day 7: Business Continuity and Disaster Recovery Planning

- Developing and testing disaster recovery plans
- High availability and fault-tolerant design principles
- Business impact analysis and recovery time objectives RTOs

Day 8: Data Center Automation and Orchestration

- Automation tools for streamlining operations
- Orchestration platforms for provisioning and configuration
- DevOps methodologies for accelerating software delivery

Day 9: Hands-on Lab Exercises and Case Studies

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

Day 10: Exam Preparation and Practice Tests

- Review of key course concepts
- Practice tests to assess readiness for certification exams
- Exam strategies for data center management certifications



Conclusion

This certified data center management course empowers participants with advanced knowledge and hands-on skills essential for effective data center operations, data management strategy, and IT infrastructure planning. With a focus on cybersecurity, disaster recovery, sustainability, and cloud integration, the course prepares participants to confidently manage the complexities of modern data center environments. Participants will be fully equipped to contribute to the performance, reliability, and sustainability of their organizations' data centers



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