Advanced Certified Data Center Management

24 October – 4 November 2027
Cairo (Egypt)



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Introduction

In today's digital economy, data center management is the foundation of enterprise IT operations, ensuring the availability, security, and performance of data management systems that drive business success. Organizations rely on data center managed services to optimize infrastructure, reduce downtime, and implement data management solutions that support scalability and compliance with industry standards.

This certified data center management course is designed to equip professionals with data management skills essential for leading data center projects, implementing efficient data lifecycle management strategies, and mitigating security risks. Participants will explore the latest advancements in data management services, cloud integration, data analytics management, and automation to ensure resilient and high-performance data management processes.

Whether you aspire to become a data center project manager, a data management specialist, or enhance your role in data asset management, this course provides hands-on expertise to manage modern data centers with confidence.

Course Objectives

- Gain a comprehensive understanding of data center management, including industry best practices and frameworks.
- Develop expertise in designing, planning, and operating data management systems that align with business objectives.
- Explore data management strategies to optimize data lifecycle management and ensure compliance with regulations.
- Master the implementation of data management solutions for efficiency, sustainability, and high availability.
- Acquire skills in data center security, including risk assessment, data asset management, and cybersecurity strategies.
- Learn how to integrate cloud computing, virtualization, and automation into data center managed services.
- Enhance disaster recovery and business continuity planning by creating robust data management plans.
- Prepare for industry-recognized certifications in data center management, ensuring career growth and expertise recognition.



Course Outlines

Day 1: Introduction to Data Center Management Principles

- Overview of data center management frameworks and methodologies.
- Understanding data manager responsibilities and service-level agreements SLAs.
- Key data management skills for operating modern data centers.

Day 2: Planning and Designing Data Center Facilities

- Data management plan development for infrastructure scalability.
- Capacity planning for storage, computing, and networking.
- Best practices in data lifecycle management and environmental sustainability.

Day 3: Operating and Maintaining Data Center Infrastructure

- Data management process for optimizing daily operations.
- Tools for monitoring and analyzing data center managed services.
- Implementing change management and continuous improvement strategies.

Day 4: Virtualization and Cloud Computing in Data Centers

- Data management meaning in cloud and virtualized environments.
- Implementing hybrid cloud architectures for scalability and performance.
- Orchestration tools for managing data center automation efficiently.

Day 5: Energy Efficiency and Environmental Sustainability

- Strategies for reducing carbon footprint and increasing efficiency.
- Implementing green IT initiatives to optimize data asset management.
- Regulations and compliance standards for sustainable data center operations.

Day 6: Cybersecurity and Risk Management in Data Centers

- Threat analysis and implementation of data security best practices.
- Strategies for data management lifecycle security and risk mitigation.
- Incident response and data recovery planning.

Day 7: Business Continuity and Disaster Recovery Planning

- Developing a data management strategy for high availability.
- Implementing redundancy and failover solutions.
- Business impact analysis and defining recovery time objectives RTOs.



Day 8: Data Center Automation and Orchestration

- The role of data management solutions in automation.
- Utilizing AI and machine learning for data analytics management.
- Implementing DevOps methodologies for streamlined data management processes.

Day 9: Hands-on Lab Exercises and Case Studies

- Practical exercises using data center management tools.
- Real-world data center project management case studies.
- Troubleshooting exercises for optimizing data management systems.

Day 10: Exam Preparation and Certification Readiness

- Comprehensive review of key data management skills and concepts.
- Practice exams and exam-taking strategies.
- Final assessment to prepare for data center management certifications.

Why Attend This Course? Wins & Losses!

- Advanced knowledge in data center management, covering operations, security, and automation.
- Practical expertise in data management solutions, cloud computing, and virtualization.
- Skills to manage data center managed services and optimize data asset management.
- Certification readiness for industry-leading data center management credentials.
- Competitive advantage for roles such as data analytics manager, data management specialist, and data center project manager.

Conclusion

This certified data center management course provides a comprehensive learning experience in data management strategy, data lifecycle management, and data management solutions. With a strong focus on security, cloud integration, and disaster recovery, participants will be fully prepared to take on leadership roles in data center project management and data center managed services.

By completing this course, you will develop the data management skills required to optimize data center performance, implement data asset management strategies, and contribute to the reliability and sustainability of enterprise data management systems.

Enroll today and take your expertise in data center management to the next level!

