

Course in Certified Data Center Management

10 – 14 January 2027
Cairo (Egypt)

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Introduction

In today's rapidly evolving digital ecosystem, data centers form the backbone of enterprise IT operations. They ensure the availability, security, and performance of critical data management systems that support business continuity and growth. Organizations increasingly rely on managed data center services to optimize infrastructure, reduce downtime, enhance security, and maintain compliance with international standards.

This certified program provides participants with the essential competencies required to design, operate, secure, and optimize modern data centers. Through a blend of theoretical knowledge, practical insights, and real-world applications, learners will explore the latest advancements in cloud integration, data lifecycle management, cybersecurity, and automation technologies.

Whether your goal is to advance as a Data Center Project Manager, Data Management Specialist, or strengthen your skills in data asset management, this intensive training will prepare you to manage complex data center operations with confidence and expertise.

Course Objectives

- Gain a solid understanding of data center management principles, global standards, and best practices.
- Develop skills to design, plan, and manage data management systems aligned with organizational needs.
- Learn effective data lifecycle management strategies and compliance requirements.
- Master data center operations to achieve high availability, scalability, and sustainability.
- Build capabilities in cybersecurity, risk assessment, and data asset protection.
- Understand how to integrate cloud computing, virtualization, and automation into data center workflows.
- Enhance business continuity planning, disaster recovery strategies, and operational resilience.
- Prepare for industry-recognized certifications in data center and data management disciplines.

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A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver, set against a background of concentric circles.

Course Outlines

Day 1: Foundations of Data Center Management

- Overview of modern data center architectures and global management frameworks.
- Roles and responsibilities of data center managers and key operational functions.
- Understanding SLAs, availability metrics, and essential data management principles.
- Aligning data center objectives with organizational IT strategy.

Day 2: Data Center Design, Planning, and Infrastructure Optimization

- Developing scalable data management plans for storage, compute, and networking.
- Capacity planning, resource allocation, and performance optimization.
- Best practices in data lifecycle management and ensuring regulatory compliance.
- Designing energy-efficient and environmentally responsible data center environments.

Day 3: Operations, Monitoring, and Performance Management

- Daily operational processes for managing critical infrastructure.
- Tools and platforms for monitoring, analyzing, and optimizing managed data center services.
- Implementing ITIL-based change management and continuous improvement methodologies.
- Operational risk identification and mitigation strategies.

Day 4: Cloud Integration, Virtualization, and Automation

- Virtualization concepts and their impact on data center efficiency.
- Integrating cloud solutions public, private, hybrid into data center operations.
- Automation and orchestration tools to streamline workload management.
- Leveraging AI and analytics for predictive maintenance and data optimization.

Day 5: Cybersecurity, Disaster Recovery & Business Continuity

- Understanding cybersecurity threats and data protection strategies.
- Developing resilient data management processes to secure the data lifecycle.
- Business continuity planning, disaster recovery frameworks, RTO & RPO definitions.
- Implementing redundancy, failover, and recovery solutions for maximum uptime.
- Final review, interactive workshop, and certification preparation.

Why Attend This Course: Wins & Losses!

- Advanced, practical expertise in data center management, security, and cloud integration.
- Strong operational skills to manage modern data center environments and data management systems.
- Tools and frameworks to reduce downtime, enhance performance, and strengthen data asset protection.
- Competitive advantage for roles such as Data Center Project Manager, Data Management Specialist, IT Infrastructure Manager, and Data Analytics Lead.
- Certification readiness—equipping you with the knowledge needed to pursue industry-leading credentials.

Conclusion

This intensive 5-day certification course offers a comprehensive journey into data center management. By mastering essential competencies—from design and operations to cybersecurity and disaster recovery—you will be fully prepared to lead data-driven projects and support business-critical IT infrastructures.

Upon completion, participants will possess the knowledge and confidence to enhance data center performance, implement efficient data management strategies, and contribute to the sustainability and reliability of enterprise data systems.

Take the next step in your professional development—enroll now and elevate your data center management expertise to a world-class level.

A graphic of a chessboard with several pawns. A large gold king piece is in the foreground, with a silver pawn and a black pawn behind it. The board is checkered and has a subtle grid pattern.

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