

Data Center Management

Amsterdam

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UK Training

PARTNER



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Introduction

Data centers are the backbone of modern IT infrastructure, supporting everything from cloud computing to big data analytics. Effective data center management ensures seamless operation, optimizing uptime, scalability, and security while enabling organizational growth and technological advancements. This 5-day course provides participants with comprehensive knowledge and practical skills to design, manage, and maintain high-performance and sustainable data centers. Emphasizing data center management solutions, operations, and emerging trends in data center efficiency and sustainability, the course offers actionable insights into ensuring business continuity and cost-efficient operations.

Participants will explore data center technologies, best practices, and the tools necessary to optimize operations while aligning with modern sustainability goals.

Course Objectives

By the end of this course, participants will be able to:

- Understand Data Center Fundamentals: Learn the core principles of data center management, including its role in IT infrastructure.
- Explore Data Center Technologies: Discover cutting-edge tools and equipment that drive operational efficiency, security, and scalability.
- Master Operations and Maintenance: Gain practical skills in managing daily data center operations management, ensuring uptime and performance.
- Focus on Sustainability: Learn strategies for improving data center sustainability and reducing energy consumption.
- Develop Scalable Solutions: Understand how to design and manage scalable data centers that are future-ready.

Course Outlines

Day 1: Foundations of Data Center Management

- What is Data Center Management? 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 Solutions: Understanding operational systems and solutions.
- Key Industry Standards: Overview of standards like TIA-942 and Uptime Institute Tier Classifications.
- Site Selection and Design: Criteria for selecting data center locations and designing layouts for optimal efficiency.

Day 2: Infrastructure and Technology



- Power Systems: Designing resilient and redundant power setups, including UPS systems, generators, and more.
- Cooling Systems: Techniques for optimizing cooling systems, ensuring energy efficiency while preventing hardware overheating.
- Data Center Security: Physical and digital security measures for safeguarding infrastructure.
- Networking and Storage: Exploring network and data storage solutions, including SAN, NAS, cloud storage, and redundancy.
- Building Management Systems: Introduction to building management system data centers for integrated control of various facility functions.

Day 3: Data Center Operations

- Daily Operations and Monitoring: Best practices for maintaining uptime, operational efficiency, and performance.
- Capacity Planning: Ensuring scalability to accommodate future growth and demand.
- Incident Management: Troubleshooting common issues to minimize downtime and manage data center service management.
- Data Center Maintenance: Developing preventive and corrective maintenance schedules to maintain system integrity.
- Compliance Management: Understanding compliance management for data center facilities and adhering to regulations.
- Managing data center lifecycle management and ensuring efficient operation throughout its life cycle.

Day 4: Sustainability and Efficiency

- Energy Efficiency in Data Centers: Strategies for reducing power consumption while maintaining performance.
- Green Data Centers: Leveraging renewable energy, data center change management policy, and sustainable practices to lower environmental impact.
- Smart Systems and Automation: Using IoT and AI to optimize resource utilization, performance, and predictive maintenance.
- Cooling Innovations: Exploring modern cooling techniques like liquid cooling and free air cooling to reduce environmental impact.
- Case Studies: Examples of successful sustainable data centers worldwide.

Day 5: Future-Proofing and Emerging Trends

- Trends in Data Center Technologies: Advancements like edge computing, 5G integration, and quantum computing.
- Managing Hybrid and Cloud Data Centers: Integrating cloud services with on-premises infrastructures.
- Disaster Recovery Planning: Developing robust plans to ensure business continuity and minimize risks in emergency situations.
- Project Planning for Data Centers: Introduction to managing data center projects, including fundamental project management practices.
- Capstone Project: Design and present a comprehensive data center management plan that addresses scalability, sustainability, and operational efficiency.

Why Attend This Course? Wins & Losses!

- **Master Data Center Management:** Gain hands-on skills and in-depth knowledge in managing modern data center operations, security, and performance.
- **Design Scalable Solutions:** Learn to design and manage data centers that can scale seamlessly with organizational growth.
- **Boost Energy Efficiency:** Acquire practical knowledge on integrating energy-efficient systems and sustainability practices into your operations.
- **Stay Ahead with Emerging Trends:** Learn about edge computing, 5G integration, quantum computing, and more to future-proof your data center.
- **Compliance Expertise:** Understand the importance of data center change management policy, compliance management, and data center cable management policy for ensuring regulatory adherence.
- **Develop Real-World Skills:** Apply your knowledge to create real-world data center lifecycle management strategies and actionable solutions.

Conclusion

This Data Center Management Course equips participants with the necessary tools, knowledge, and best practices to design, manage, and maintain modern, efficient, and sustainable data centers. With a focus on data center operations management, scalable solutions, and sustainability, attendees will be well-prepared to address the challenges of today's dynamic IT environment.

Whether you are a data center project manager, an aspiring data center manager, or an IT professional seeking to enhance your expertise, this course offers the practical insights you need to thrive in the fast-evolving world of data center operations.

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



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