



Mastering Data Center Management: Operations, Security & Optimization Training Course

29 Dec 2026 - 02 Jan 2027

عن بعد



AGILE LEADERS
Training Center



Mastering Data Center Management: Operations, Security & Optimization Training Course

الرجوع: 103600355_65510 التاريخ: 29 Dec 2026 - 02 Jan 2027 الموقع: عن بعد الرسوم: Euro 1500

Course Overview:

The Mastering Data Center Management training course provides a comprehensive, hands-on approach to managing modern data centers. Participants will learn best practices in IT infrastructure, server management, data center security, and energy efficiency while exploring emerging technologies like cloud computing, hybrid cloud, and virtualization. The course will focus on optimizing data center operations, ensuring IT compliance, risk management, redundancy planning, and cybersecurity.

With an increasing demand for high-availability systems, network security, disaster recovery, and power management, this course prepares IT professionals to effectively manage data centers while reducing costs and environmental impact.

Target Audience:

- Data Center Managers
- IT Administrators & Network Engineers
- Cloud & Virtualization Specialists
- Cybersecurity Professionals
- Enterprise IT Consultants
- Disaster Recovery & Business Continuity Managers

Targeted Organizational Departments:

- IT Infrastructure & Operations
- Cybersecurity & Risk Management
- Cloud & Virtualization Teams
- Energy & Sustainability Teams
- Disaster Recovery & Business Continuity

Targeted Industries:

- Technology & Cloud Service Providers
- Banking & Financial Services
- Healthcare & Pharmaceuticals
- Telecommunications & Networking
- Retail & E-commerce
- Manufacturing & Logistics

Course Offerings:

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

- Design and optimize data center infrastructure for performance and scalability
- Implement security best practices to safeguard critical IT assets
- Apply cloud computing and virtualization to improve resource utilization
- Ensure energy efficiency through advanced cooling and power management techniques
- Develop disaster recovery and business continuity plans for critical operations
- Comply with IT governance standards and industry best practices
- Evaluate hybrid cloud models for cost-effective data center modernization

Training Methodology:

This interactive course employs a combination of:

- Real-world case studies on cloud data centers, security breaches, and energy efficiency
- Exercises focused on data center risk assessment and optimization planning
- Interactive discussions on IT compliance, cybersecurity strategies, and hybrid cloud
- Hands-on practice labs configuring network administration and virtualization

Course Toolbox:

Participants will receive:

- Data Center Management ebook
- Network Administration & Security Templates
- Checklists for IT Asset Management & Risk Planning
- Case Study & Benchmark Reports

Course Agenda:

Day 1: Data Center Infrastructure and Core Design Principles

- Overview of Data Center Architecture and Facility Types Topic 1:
- IT Infrastructure Components and Systems Integration Topic 2:
- Site Selection, Physical Design, and Floor Planning Topic 3:
- Raised Floors, Cabling Layouts, and Structural Design Considerations Topic 4:
- Rack Space Allocation, Environmental Controls, and Fire Safety Topic 5:
- Scalability and Redundancy Planning for Growth and Continuity Topic 6:
- Building robust, scalable, and efficient data center environments Reflection & Review:

Day 2: Power Systems, Cooling, and Energy Optimization

- Power Distribution Units PDUs, UPS Systems, and Backup Generators Topic 1: •
- AC vs. DC Power Systems and Energy Efficiency Metrics Topic 2: •
- Cooling Systems: CRAC Units, Free-Air Cooling, and Hot/Cold Aisles Topic 3: •
- Power Monitoring, Load Balancing, and Capacity Planning Topic 4: •
- Green IT Solutions and Sustainable Data Center Strategies Topic 5: •
- Case Study: Power Outage Response and Resilience Planning Topic 6: •
- Optimizing infrastructure for efficiency and reliability Reflection & Review: •

Day 3: Network Administration, Security, and Virtualization

- Structured Cabling Systems, Fiber Optics, and Network Topologies Topic 1: •
- LAN, SAN, and Internet Edge Network Design Considerations Topic 2: •
- Network Security Architecture, IDS/IPS, and Firewalls Topic 3: •
- Physical and Logical Access Controls, Compliance Standards Topic 4: •
- Server Virtualization, Containerization, and Resource Pooling Topic 5: •
- Hybrid Cloud Models and Integration Best Practices Topic 6: •
- Ensuring secure and virtualized high-performance data centers Reflection & Review: •

Day 4: Operations, Monitoring, and Disaster Recovery

- Infrastructure Monitoring Tools and Predictive Maintenance Topic 1: •
- IT Asset Management and Equipment Lifecycle Strategies Topic 2: •
- Business Continuity Planning and Disaster Recovery Frameworks Topic 3: •
- Backup Technologies, Archiving, and Storage Management Topic 4: •
- Automation in Data Center Operations and Remote Management Topic 5: •
- IT Service Management ITSM, SLAs, and Compliance Audits Topic 6: •
- Maintaining uptime, performance, and operational excellence Reflection & Review: •

Day 5: Governance, Compliance, and Future Trends

- IT Governance Frameworks: ISO 27001, NIST, GDPR, and Others Topic 1: •
- Risk Management, Vulnerability Assessment, and Mitigation Planning Topic 2: •
- Capacity Planning, Budget Optimization, and KPI Tracking Topic 3: •
- Emerging Trends: AI, Edge Computing, and Software-Defined Data Centers Topic 4: •
- Capstone Group Project: Design, Assess, and Present a Data Center Model Topic 5: •
- Final Knowledge Review, Feedback, and Certification Completion Topic 6: •
- Integrating strategic, technical, and operational competencies Reflection & Review: •

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

There are no strict prerequisites, but basic IT knowledge and experience in network administration, IT infrastructure, or cloud computing are recommended.

How long is each day's session, and is there a total number of hours required for the entire course?

Each session lasts 4-5 hours with breaks and practical exercises. The full course spans 5 days, totaling 20-25 hours of training.

How does this course address energy efficiency and sustainability?

The course covers green IT solutions, cooling systems, and power management strategies to reduce environmental impact and operational costs.

How This Course is Different from Other Data Center Management Courses:

This course integrates theory, hands-on labs, and case studies, focusing on real-world applications of IT governance, security compliance, and hybrid cloud optimization. Unlike generic IT courses, it emphasizes business continuity, cybersecurity, and energy efficiency, making it ideal for professionals managing enterprise-scale data centers.



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HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



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دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



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فئات الدورات التدريبية



دورات معتمدة بشهادة CPD



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دورات المهارات الشخصية وتطوير الذات



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الهائية



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الرشيقية



دورات معتمدة من قبل هيئات دولية

مدن التدريب



اسطنبول - تركيا



أموستردام - هولندا



أنقرة - تركيا



أثينا - اليونان



الرياض - المملكة العربية السعودية



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



باريس - فرنسا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



براغ - جمهورية التشيك



بانكوك - تايلاند



بالي - جمهورية إندونيسيا



باكو - أذربيجان

مدن التدريب



جاكرتا - جمهورية اندونيسيا



تيليسي - جورجيا



بوكيت - تايلاند



برشلونة - اسبانيا



روما - ايطاليا



دبي - الامارات العربية المتحدة



جوهانسبرغ - جنوب افريقيا



جنيف - سويسرا



شهر الشيخ - مصر



سيول - كوريا الجنوبية



سان دييغو - الولايات المتحدة
الامريكية



زنبار - تنزانيا



طوكيو - اليابان



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شيكاغو - الولايات المتحدة
الامريكية

مدن التدريب



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



ماربيا - اسبانيا



لندن - المملكة المتحدة



لانكاوي - ماليزيا



كيب تاون - جنوب إفريقيا



ميلان - إيطاليا



مونترال - سويسرا



مسقط - سلطنة عمان



مدريد - إسبانيا



نيس - فرنسا



نيروبي - كينيا



ميونخ - ألمانيا

WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



AGILE LEADERS
Training Center

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