BLACKBIRD FOR TRAINING

Professional Data Center Infrastructure

Amsterdam (Netherlands)

24 - 28 February 2025

UK Traininig

PARTNER

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Professional Data Center Infrastructure

Code: IT28 From: 24 - 28 February 2025 City: Amsterdam (Netherlands) Fees: 4900 Pound

Introduction

The Professional Data Center Infrastructure course provides comprehensive training on the design, implementation, and management of data center infrastructure. In this course, participants will gain a deep understanding of the key components and best practices for building a reliable, scalable, and efficient data center.

Course Objectives

- Understand the fundamentals of data center infrastructure, including power, cooling, networking, and storage.
- Learn best practices for designing data centers that meet business requirements for availability, performance, and scalability.
- Gain knowledge of the latest technologies and trends in data center infrastructure, such as virtualization, cloud computing, and software-defined networking.
- Acquire skills in implementing and managing data center infrastructure components, including servers, storage systems, network devices, and environmental controls.
- Develop an understanding of data center monitoring, maintenance, and disaster recovery strategies to ensure continuous operations and minimize downtime.

Course Outline

Day 1: Introduction to Data Center Infrastructure

- Overview of data center infrastructure components.
- Importance of data center design and planning.
- Power and cooling requirements in data centers.
- Networking infrastructure for data centers.
- Storage systems and architectures.

Day 2: Data Center Design and Implementation

- Design principles for high availability and scalability.
- Rack and cabinet layout and organization.
- Cabling and connectivity considerations.
- Network design for data centers.
- Storage design and implementation.

Day 3: Data Center Technologies and Trends

- Virtualization in data centers.

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- Cloud computing and its impact on data center infrastructure.
- Software-defined networking SDN.
- Converged and hyper-converged infrastructure solutions.
- Green data center initiatives and energy efficiency.

Day 4: Data Center Operations and Management

- Data center monitoring and management tools.
- Capacity planning and resource optimization.
- Maintenance and troubleshooting best practices.
- Data center security and access controls.
- Disaster recovery and business continuity planning.

Day 5: Emerging Technologies and Future Trends

- Edge computing and its impact on data centers.
- Artificial intelligence and machine learning in data center operations.
- Data center automation and orchestration.
- Hybrid and multi-cloud strategies.
- Data center sustainability and environmental considerations.

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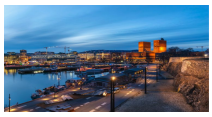
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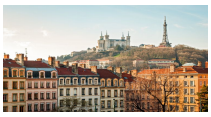
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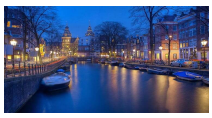
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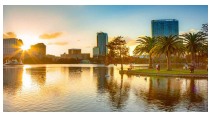
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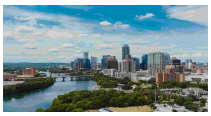
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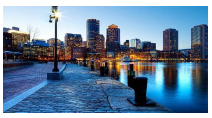
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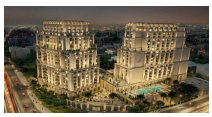
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