BLACKBIRD
FOR TRAINING

Professional Data Center Infrastructure

Geneva (Switzerland)

8 - 12 September 2025

UK Traininig

PARTNER

Professional Data Center Infrastructure

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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