

Professional Data Center Infrastructure

Sharm El-Sheikh (Egypt)

9 - 13 March 2025

UK Traininig

PARTNER



Professional Data Center Infrastructure

Code: IT28 From: 9 - 13 March 2025 City: Sharm El-Sheikh (Egypt) Fees: 4400 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.

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
- 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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