BLACKBIRD
FOR TRAINING

Data Centre Professional Infrastructure

Istanbul (Turkey)

10 - 14 November 2024

UK Traininig
PARTNER

Data Centre Professional Infrastructure

Code: IT28 From: 10 - 14 November 2024 City: Istanbul (Turkey) Fees: 4600 Pound

Introduction

Overview of data centers and their importance in modern business operations Evolution of data centers and current trends in the industry, Introduction to data center infrastructure, components, and key terminology

Course Objectives

- Develop a comprehensive understanding of data center operations and management principles
- Gain knowledge about critical infrastructure components and their interdependencies
- Learn best practices for maintaining high availability, efficiency, and security in data centers
- Understand capacity planning, risk management, and disaster recovery strategies
- Explore emerging technologies and industry standards in data center operations

Course Outline

Day 1

Introduction to Data Center Operations

- Data center overview and industry trends
- Key roles and responsibilities in data center operations
- Regulatory and compliance considerations
- Data center standards and frameworks e.g., TIA-942, Uptime Institute

Day 2

Data Center Infrastructure

- Power and cooling systems in data centers
- Network architecture and connectivity options
- Storage and server technologies
- Data center cabling and physical infrastructure

Day 3

Monitoring and Maintenance

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- Proactive monitoring and preventive maintenance strategies
- Performance metrics and key performance indicators KPIs
- Incident management and response procedures
- Change management and configuration control

???????Day 4

Capacity Planning and Resource Management

- Capacity planning methodologies and tools
- Resource allocation and utilization optimization
- Scalability considerations and future-proofing
- Virtualization and cloud computing in data centers

???????Day 5

Risk Management and Security

- Risk assessment and mitigation strategies
- Data center security measures and access controls
- Business continuity and disaster recovery planning
- Physical security and environmental considerations

??????????????Emerging Technologies and Industry Trends

- Internet of Things IoT and edge computing
- Artificial Intelligence AI and machine learning in data centers
- Sustainable and green data center practices
- Industry case studies and real-world examples

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International House 185 Tower Bridge Road London SE1 2UF United Kingdom

+44 7401 1773 35
+44 7480 775526

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