BLACKBiRD
FOR TRAINING

Data Center Build and Design

Istanbul (Turkey)

23 - 27 June 2025

UK Traininig
PARTNER

Data Center Build and Design

Code: OC28 From: 23 - 27 June 2025 City: Istanbul (Turkey) Fees: 4600 Pound

Introduction:

- Overview of Data Centers
- Importance of Data Centers in Modern IT Infrastructure
- Evolution of Data Center Technology
- Key Components of Data Center Design
- Course Structure and Expectations

Course Objectives:

- Understand the fundamental concepts of data center design and build
- Learn the best practices for data center infrastructure
- Explore the latest trends and technologies in data center construction
- Gain knowledge on data center operations and maintenance
- Develop skills to design and build efficient and reliable data centers

Course Outlines:

Day 1: Introduction to Data Centers

1. History and Evolution of Data Centers
2. Types of Data Centers Enterprise, Colocation, Hyperscale
3. Data Center Standards and Compliance TIA-942, Uptime Institute
4. Site Selection and Environmental Considerations
5. Introduction to Data Center Architecture

Day 2: Data Center Infrastructure

1. Power Systems and Electrical Design
2. Cooling and Environmental Controls
3. Network and Connectivity Solutions
4. Storage Solutions and Architectures
5. Security and Access Control Systems

Day 3: Data Center Design Principles

1. Space Planning and Layout Design
2. Redundancy and Resiliency N+1, 2N, 2N+1
3. Scalability and Future-Proofing
4. Energy Efficiency and Green Data Centers
5. Risk Management and Disaster Recovery

Day 4: Construction and Implementation

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1. Project Management for Data Center Builds
2. Vendor Selection and Contract Management
3. Construction Phases and Milestones
4. Testing and Commissioning Procedures
5. Case Studies of Successful Data Center Projects

Day 5: Operations and Maintenance

1. Day-to-Day Operations and Monitoring
2. Maintenance Best Practices and Scheduling
3. Troubleshooting and Incident Management
4. Upgrades and Capacity Planning
5. Documentation and Compliance Management

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