BLACKBIRD
FOR TRAINING

Data Centre Professional Infrastructure: Design & Management

IT & IT Engineering
Barcelona (Spain)
14 - 18 Jul 2025

UK Traininig
PARTNER

Data Centre Professional Infrastructure: Design & Management

Ref: 321731_145199 **Date:** 14 - 18 Jul 2025 **Location:** Barcelona (Spain) **Fees:** 4400 **Euro**

Course Description

This comprehensive 5-day course provides IT professionals with in-depth knowledge and practical skills for designing, implementing, and managing modern data centre infrastructure. Participants will explore key components including power, cooling, networking, security, and operational best practices. The course combines theoretical concepts with hands-on exercises to ensure a well-rounded understanding of data centre operations.

Learning Objectives

- Design efficient and scalable data centre infrastructure layouts
- Implement best practices for power distribution and cooling systems
- Develop comprehensive security and disaster recovery strategies
- Optimize data centre operations through effective management techniques
- Apply industry standards and regulations to data centre design and operations

Course Modules

Day 1: Data Centre Fundamentals and Design Principles

- Introduction to data centre concepts and terminology
- Site selection and facility planning
- Data centre tiers and reliability standards
- Scalable infrastructure design methodologies

Day 2: Power Infrastructure and Management

- Power distribution systems and redundancy
- Uninterruptible Power Supply UPS technologies
- Energy efficiency and PUE optimization
- Power monitoring and capacity planning

Day 3: Cooling Systems and Environmental Control

- Data centre cooling architectures
- HVAC systems and best practices
- Airflow management and containment strategies
- Environmental monitoring and control systems

Head Office: +44 7480 775 526 | 0 7401 177 335
Email: training@blackbird-training.com
Website: www.blackbird-training.com

Day 4: Network Infrastructure and Connectivity

- Data centre network topologies and architectures
- Cabling systems and management
- Software-defined networking in data centres
- Storage area networks and converged infrastructure

Day 5: Security, Operations, and Management

- Physical and cyber security best practices
- Disaster recovery and business continuity planning
- Data Centre Infrastructure Management DCIM tools
- Operational procedures and documentation
- Emerging trends and technologies in data centres

Practical Wins for Participants

- Ability to design and optimize data centre layouts for maximum efficiency
- Skills to implement and manage robust power and cooling systems
- Expertise in developing comprehensive data centre security strategies
- Proficiency in using DCIM tools for effective infrastructure management

UK Traininig
PARTNER

Head Office: +44 7480 775 526 | 0 7401 177 335
Email: training@blackbird-training.com
Website: www.blackbird-training.com

Blackbird training cities

Accra (Ghana)	Amman (Jordan)	Amsterdam (Netherlands)	Annecy (France)
Baku (Azerbaijan)	Bali (Indonesia)	Bangkok (Thailand)	Bangkok (Thailand)
Barcelona (Spain)	Batumi (Georgia)	Beijing (China)	Beirut (Lebanon)
Berlin (Germany)	Birmingham (UK)	Bordeax (France)	Boston,Massachusetts (USA)
Brussels (Belgium)	Cairo (Egypt)	Cape Town (South Africa)	Casablanca (Morocco)
Cascais (Portugal)	Copenhagen (Denmark)	Doha (Qatar)	Dubai (UAE)
Düsseldorf (Germany)			

UK Traininig
PARTNER

Head Office: +44 7480 775 526 | 0 7401 177 335
Email: training@blackbird-training.com
Website: www.blackbird-training.com

Blackbird Training Category

Human Resource

Audit & Quality Assurance

Finance, Accounting, Budgeting

Marketing, Sales, Customer Service

Secretary & Admin

Law and Contract Management

Project Management

IT & IT Engineering

Supply Chain & Logistics

Management & Leadership

Professional Skills

Oil & Gas Engineering

Health & Safety

Telecom Engineering

Hospital Management

Customs & Safety

Aviation

C-Suite Training

Agile and Refinement

UK Traininig
PARTNER

Blackbird training Clients

MANNAI CORPORATION MANNAI Trading Company WLL, **Qatar**	**GAC** UNE FILIALE D'EGA Alumina Corporation **Guinea**	**B.** **Booking.com** Booking.com **Netherlands**	**OXFAM** Oxfam GB International Organization, **Yemen**	Capital Markets Authority Capital Markets Authority, **Kuwait**
WS Waltersmith Petroman Oil Limited **Nigeria**	**QNB** Qatar National Bank (QNB), **Qatar**	مؤسسة قطر Qatar Foundation Qatar Foundation, **Qatar**	AFRICAN UNION ADVISORY BOARD ON CORRUPTION, **Tanzania**	**KFAS** مؤسسة الكويت للتقدم العلمي Kuwait Foundation for the Advancement of Sciences KFAS **Kuwait**
Reserve Bank of Malawi, **Malawi**	Central Bank of Nigeria **Nigeria**	Ministry of Interior Kingdom of Saudi Arabia Ministry of Interior, **KSA**	**Mabruk** Oil Operations Mabruk Oil Company **Libya**	الشركة السعودية للكهرباء Saudi Electricity Company Saudi Electricity Company, **KSA**
BPKH Badan Pengelola Keuangan Haji BADAN PENGELOLA KEUANGAN Haji, **Indonesia**	NATO **Italy**	**eni** ENI CORPORATE UNIVERSITY, **Italy**	بنك الخليج **GULF BANK** Gulf Bank **Kuwait**	المؤسسة العامة للتأمينات الاجتماعية General Organization for Social Insurance General Organization for Social Insurance **KSA**
Defence Space Administraion **Nigeria**	مجموعة الصناعات الوطنية (القابضة) National Industries Group (Holding), **Kuwait**	مؤسسة حمد الطبية Hamad Medical Corporation Hamad Medical Corporation, **Qatar**	**USAID** USAID **Pakistan**	**STC** الاتصالات السعودية STC Solutions, **KSA**
N North Oil Company North Oil company,	**EKEDC** EKO ELECTRICITY DISTRIBUTION COMPANY EKO Electricity	**oman** BROADBAND العمانية للنطاق العريض Oman Broadband	**UNITED NATIONS** UN.	هيئة تنظيم الكهرباء - عمان AUTHORITY FOR ELECTRICITY REGULATION, OMAN Authority for

UK Training
PARTNER

BLACKBIRD
FOR TRAINING