Data Centre Professional Infrastructure: Design & Management

31 May – 4 June 2027
Geneva (Switzerland)

UK Traininig
PARTNER



Data Centre Professional Infrastructure: Design & Management

Ref: 321731_145205 **Date:** 31 May – 4 June 2027 **Location:** Geneva (Switzerland) **Fees:** 5900 GBP

Why This Course

Modern data centres are the backbone of enterprise IT, supporting critical applications, cloud services, and digital transformation initiatives. This intensive 1-week program equips IT professionals with the knowledge and practical skills required to design, implement, and manage efficient, secure, and scalable data centre infrastructure. Through a mix of theory, hands-on exercises, and real-world case studies, participants will gain the expertise to optimize data centre performance, ensure reliability, and adopt industry best practices.

What You'll Learn and Practice

By attending this course, you will be able to:

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

The Program Flow

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 operational best practices
- Airflow management and containment strategies
- Environmental monitoring and control systems

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

Individual Impact

Participants will leave this program with:

- Skills to design and optimize data centre layouts for efficiency and scalability.
- Expertise in implementing and managing power and cooling systems.
- Competence in developing comprehensive security and disaster recovery strategies.
- Proficiency in using DCIM tools to manage data centre operations effectively.

Organizational Impact

Organizations will benefit from:

- Enhanced reliability and performance of critical IT infrastructure.
- Optimized energy usage and operational efficiency in data centres.
- Robust security and disaster recovery strategies to protect business continuity.
- Teams capable of managing modern data centre technologies and operations.



Training Methodology

- Interactive lectures and practical demonstrations
- Hands-on exercises with real-world scenarios
- Case studies and group discussions
- Application of industry standards and best practices

Beyond the Course

By the end of this 1-week program, participants will be ready to:

- Design, implement, and optimize data centre infrastructure aligned with organizational goals.
- Apply best practices for power, cooling, and network systems management.
- Develop and enforce security and disaster recovery protocols.
- Utilize DCIM tools to enhance operational efficiency and monitoring.

