MFE-IT

Reference: YAS/EN/DSD

Data Center and Data Security Training Course

Design Resilient and Compliant Infrastructures

Duration: 4 Days | Hours: 28 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

Faced with growing data volumes and stringent availability requirements, companies must design data centres that are high-performance, reliable and secure. This is no longer just a technical issue: it is a strategic challenge that ties directly to business continuity, regulatory compliance and corporate reputation.

This Data Centre and Data Security training course guides you through the design or redesign of data centres, integrating physical, logical and regulatory security requirements: redundancy, business continuity, access control and personal data protection. The approach combines infrastructure engineering with information protection in a single coherent framework.

LEARNING OBJECTIVES

By the end of this training course, participants will be able to:

- Understand the key design elements of a data centre (architecture, power, cooling, network)
- Identify applicable norms and standards (Tier, ISO 27001, Uptime Institute)
- Integrate physical, logical and regulatory security requirements
- Design a Business Continuity Plan (BCP) and Disaster Recovery Plan (DRP)
- Master the protection of hosted data (encryption, governance, classification)
- Manage the evolution and scalability of infrastructures

PREREQUISITES

- Basic knowledge of IT systems, networks and architecture
- Awareness of security and compliance issues

> *Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.*

TARGET AUDIENCE

IT project managers, system architects, IT directors, security managers and technicians in charge of critical infrastructure.

DETAILED PROGRAMME

> The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Strategic Challenges for a Modern Data Centre

- Why (re)design a data centre? Business and operational drivers
- Data criticality, costs and environmental responsibility
- Security as a strategic differentiator

Module 2 – Physical and Technical Architecture

- Location, power supply and cooling
- Connectivity, redundancy and high availability
- Tier classification and physical security controls

Module 3 – Safety and Resilience

- Access control, video surveillance and physical security
- Backups, disaster recovery and business continuity plans
- Continuous monitoring and incident detection

Module 4 – Data Protection and Compliance

- Encryption at rest and in transit
- Access control, traceability and auditability
- Retention policies and regulatory compliance (GDPR, ISO 27001)

Module 5 – Scalability and Modernisation

- Virtualisation and hybrid cloud strategies
- Capacity planning and growth management
- Anticipating future needs and emerging technologies

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts