

## DATA CENTER AUDITING

*“Ensuring Reliability, Compliance, and Operational Excellence in Mission-Critical Facilities”*

### Schedule

Date	Venue	Fees (Face-to-Face)
18 – 22 May 2026	Dubai, UAE	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

### Introduction

Data centers are the backbone of the digital economy, and their uninterrupted operation is critical to business continuity. As organizations increasingly rely on high-availability infrastructure, effective auditing becomes essential for ensuring operational integrity, compliance, and risk mitigation.

This course provides participants with the practical knowledge and skills to plan, execute, and report on data center audits. Covering international standards, physical and logical security, energy efficiency, IT infrastructure, and disaster recovery controls, this program prepares professionals to assess data center readiness, reliability, and regulatory compliance.

### Objectives

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

- Plan and structure a comprehensive data center audit
- Evaluate infrastructure components, physical security, and operational procedures
- Assess compliance with standards like ISO 27001, TIA-942, and Uptime Institute
- Identify operational risks, inefficiencies, and areas for improvement
- Document findings and make actionable audit recommendations

## Why Attend

- Gain a structured framework for auditing data centers based on global standards
- Understand the key risk areas including uptime, safety, and cyber-physical security
- Learn how to detect hidden vulnerabilities in HVAC, power, cabling, and access systems
- Review best practices for green IT, redundancy, and maintenance procedures
- Boost your organization's resilience and preparedness through effective audit controls

## Target Audience

This program is designed for:

- IT auditors and compliance officers
- Data center operations managers and engineers
- Information security and risk management professionals
- Facility and infrastructure audit specialists
- Consultants involved in IT governance and service assurance

## Individual Benefits

Key competencies that will be developed include:

- Ability to assess data center performance, risks, and regulatory alignment
- Familiarity with key standards (ISO, ANSI/TIA-942, Uptime Tier Standards)
- Skills to evaluate infrastructure, cooling, power, and access control systems
- Knowledge of auditing techniques, documentation, and corrective planning
- Understanding of sustainable operations and emerging green audit criteria

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved internal audit functions related to data center operations
- Stronger alignment with industry certifications and SLA commitments
- Enhanced identification and mitigation of infrastructure and operational risks
- Greater assurance of data security, uptime, and disaster recovery capabilities
- Operational savings through efficiency reviews and compliance corrections

## Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Audit Briefings - Overview of frameworks and key control areas
- Case Studies - Data center failures, compliance breaches, and recovery plans
- Workshops - Hands-on audit checklist creation and site review simulations
- Peer Exchange - Audit experience sharing and industry benchmarks
- Audit Tools - Templates, scorecards, gap analysis tools, and reporting formats

## Course Outline

**Training Hours: 7:30 AM - 3:30 PM** Daily Format: 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 - 02:00

### Day 1: Audit Planning and Standards Overview

- Module 1: Data Center Basics & Risk Areas (07:30 - 09:30) • Types of data centers and operational tiers • Common failure points and audit priorities • Role of redundancy, uptime, and physical controls
- Module 2: Standards for Data Center Auditing (09:45 - 11:15) • ISO 27001, TIA-942, Uptime Institute Tier certifications • Energy Star, LEED, and green IT standards • Security and regulatory compliance expectations
- Module 3: Audit Planning and Scoping (11:30 - 01:00) • Defining scope, objectives, and methodology • Stakeholder engagement and risk-based prioritization • Developing an audit schedule and checklist
- Module 4: Workshop - Build an Audit Plan (02:00 - 03:30) • Tailored scope for a real or hypothetical data center

### Day 2: Physical Infrastructure and Environment

- Module 5: Facilities and Power Systems Audit (07:30 - 09:30) • UPS, generators, PDUs, electrical safety standards • Capacity management and redundancy testing • Power failure risk analysis
- Module 6: Cooling and HVAC Controls (09:45 - 11:15) • Thermal management and airflow design • Temperature and humidity monitoring tools • Energy efficiency, containment, and sustainability
- Module 7: Fire Protection and Environmental Safety (11:30 - 01:00) • Detection systems, suppression agents, and hazard zones • Compliance with NFPA, FM Global, and local standards • Access to emergency exits and response procedures
- Module 8: Workshop - Perform an Environmental Risk Review (02:00 - 03:30) • Evaluate a facility layout using audit templates

### Day 3: IT Infrastructure, Cabling, and Redundancy

- Module 9: IT Equipment & Network Cabling Audit (07:30 - 09:30) • Racks, servers, switches, and structured cabling practices • Labeling, patch panels, color codes, and routing • Signal interference, grounding, and failover setups
- Module 10: Data Center Tier and Redundancy Validation (09:45 - 11:15) • Tier I-IV requirements and evidence of compliance • Single points of failure and HA architecture • Capacity planning and component testing
- Module 11: Backup Systems and Maintenance Review (11:30 - 01:00) • Scheduled maintenance logs and asset lifecycle reviews • Spare parts, monitoring systems, and preventive practices • Backup generator and UPS test results
- Module 12: Workshop - Audit a Cabling & Power Diagram (02:00 - 03:30) • Evaluate risk areas in real sample schematics

### Day 4: Security, Monitoring & Business Continuity

- Module 13: Physical and Logical Security Audit (07:30 - 09:30) • Access control, CCTV, and biometric systems • Visitor logs and entry/exit protocols • Firewalls, IDS/IPS, and security integration
- Module 14: Monitoring, Alarms, and Dashboard Systems (09:45 - 11:15) • DCIM, EMS, BMS tools and thresholds • Real-time alerting and escalation workflows • Log management and performance baselining
- Module 15: Disaster Recovery and BCP Audit (11:30 - 01:00) • Recovery time objectives (RTO), RPO, and failover readiness • Disaster recovery sites, data replication, and testing records • Documentation, drills, and recovery roles
- Module 16: Workshop - Evaluate a BCP Audit Report (02:00 - 03:30) • Critique and improve a sample recovery plan

### Day 5: Reporting, Tools & Final Audit Simulation

- Module 17: Audit Documentation and Reporting (07:30 - 09:30) • Findings, evidence logs, and non-compliance categorization • Action plans, rating systems, and executive summaries • Audit closure and follow-up reviews
- Module 18: Tools and Technologies for Data Center Audits (09:45 - 11:15) • Digital checklists, scorecards, mobile tools • Infrared, thermal, and airflow scanning devices • Integration with asset and facilities management
- Module 19: Final Audit Simulation (11:30 - 01:00) • Group audit of a model data center environment • Presentation of findings and discussion
- Module 20: Feedback and Certification Wrap-up (02:00 - 03:30) • Action planning and professional development roadmap

## Certification

Participants will receive a Certificate of Completion in Data Center Auditing, validating their ability to conduct comprehensive, standards-based audits of data center facilities to ensure compliance, efficiency, and operational reliability.

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