MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

DATA CENTRE SECURITY & RISK MANAGEMENT

"Protecting Critical Infrastructure Through Physical, Cyber, and Operational Safeguards"

Schedule

Date	Venue	Fees (Face-to-Face)
06 – 10 Jul 2026	Dubai, UAE	USD 3495 per delegate

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

Introduction

Data centres are the backbone of digital infrastructure, supporting global communications, transactions, and cloud-based operations. As threats to data centres increase—ranging from cyber intrusions to power failures and insider attacks—managing physical and digital risk is more crucial than ever. A holistic approach to security, continuity, and compliance is required to protect sensitive data and ensure service reliability.

This 5-day course provides an integrated framework for identifying, mitigating, and managing security and operational risks in modern data centres. Participants will gain insights into physical security design, cybersecurity protocols, environmental controls, risk assessment, and business continuity strategies, aligned with global standards like ISO/IEC 27001, TIA-942, and NIST.

Objectives

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

- Understand and manage physical and logical security risks in data centres
- Apply threat modeling and risk assessment techniques
- Design layered security architecture for facility and network protection
- Ensure compliance with industry standards and resilience benchmarks
- Develop incident response, monitoring, and recovery plans

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Why Attend

- Build a comprehensive understanding of data centre threat landscapes
- Enhance uptime and resilience through proactive risk management
- Learn to integrate physical, cyber, and environmental controls
- Comply with data protection, safety, and operational standards
- Gain practical tools for audits, assessments, and recovery planning

Target Audience

This program is designed for:

- Data centre managers and facility engineers
- IT security and network infrastructure teams
- Business continuity and disaster recovery planners
- Risk, audit, and compliance professionals
- Technical consultants in cloud, hosting, and managed services

Individual Benefits

Key competencies that will be developed include:

- Threat identification and mitigation strategies
- Design and assessment of physical and logical access controls
- Incident and crisis management coordination
- Operational risk auditing and resilience testing
- Understanding compliance with international standards (ISO, NIST, TIA)

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced risk of outages, breaches, and unauthorized access
- Improved incident response and disaster recovery readiness
- Compliance with customer, regulatory, and business continuity demands
- Optimized facility performance and uptime assurance
- Stronger alignment between security and operational teams

Instructional Methodology

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

- Security Framework Reviews – ISO/IEC 27001, TIA-942, NIST SP 800-53
- Case Studies – Data centre failures, breaches, and mitigation outcomes
- Workshops – Threat assessments, access control design, audit prep
- Interactive Exercises – Scenario response planning and risk mapping
- Checklists & Templates – Security audits, gap assessments, compliance trackers

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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: Foundations of Data Centre Security and Risk

- Module 1: Data Centre Ecosystem and Threat Landscape (07:30 – 09:30) • Types of data centres, threat categories, and trends
- Module 2: Risk Management Frameworks (09:45 – 11:15) • Risk identification, assessment, mitigation, and controls
- Module 3: Regulatory Standards and Security Classifications (11:30 – 01:00) • ISO 27001, TIA-942, PCI-DSS, GDPR compliance
- Module 4: Workshop – Conduct a Risk Assessment (02:00 – 03:30) • Assess vulnerabilities in facility operations

Day 2: Physical Security and Access Control

- Module 5: Facility Perimeter and Interior Security (07:30 – 09:30) • CCTV, fencing, barriers, motion sensors
- Module 6: Identity Management and Biometrics (09:45 – 11:15) • Badge systems, biometric access, and role-based controls
- Module 7: Visitor Access, Escorts, and Staff Screening (11:30 – 01:00) • Access logs, dual authentication, and monitoring
- Module 8: Simulation – Design a Physical Security Plan (02:00 – 03:30) • Map zones and control points for layered defense

Day 3: Environmental Risk and Resilience Controls

- Module 9: Power, HVAC, and Fire Risk Management (07:30 – 09:30) • Redundant systems, fire suppression, temperature and humidity
- Module 10: Water Ingress, Vibration, and Contamination Risks (09:45 – 11:15) • Flood protection, raised flooring, sealing measures
- Module 11: Maintenance, Testing, and Monitoring Tools (11:30 – 01:00) • DCIM, sensors, BMS and predictive alerts
- Module 12: Workshop – Evaluate Facility Resilience Readiness (02:00 – 03:30) • Rate systems using tier-level frameworks

Day 4: Cybersecurity and Network Safeguards

- Module 13: Network Infrastructure Protection (07:30 – 09:30) • Firewall architecture, segmentation, VPNs, DDoS defenses
- Module 14: Endpoint and Server Room Security (09:45 – 11:15) • Anti-malware, EDR, remote access controls
- Module 15: Threat Detection, SIEM, and SOC Integration (11:30 – 01:00) • Real-time monitoring, anomaly detection, and response
- Module 16: Workshop – Cyber Incident Simulation (02:00 – 03:30) • Walkthrough of a multi-vector security breach

Day 5: Incident Management and Recovery Planning

- Module 17: Business Continuity and Disaster Recovery Planning (07:30 – 09:30) • RTO, RPO, alternate site planning, cloud DR
- Module 18: Incident Response and Crisis Communication (09:45 – 11:15) • Playbooks, roles, and escalation paths
- Module 19: Audit Preparation and Compliance Reporting (11:30 – 01:00) • Audit types, gap identification, documentation
- Module 20: Final Exercise – Develop a Security & Risk Mitigation Plan (02:00 – 03:30) • Create a facility-wide plan for risk mitigation and response

Certification

Participants will receive a Certificate of Completion in Data Centre Security & Risk Management, validating their expertise in protecting data centre environments against physical, cyber, and operational threats while ensuring compliance and resilience.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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