



Cloud Computing & Cybersecurity

www.masterpeaktraining.com

phone: +905302682631

Email: info@masterpeaktraining.com

Cloud Computing & Cybersecurity

5 days training course

For detailed information on training course dates, please click the link:

[Cloud Computing & Cybersecurity.](#)

Target Audience:

- IT Managers & System Administrators
 - Cybersecurity Specialists & Risk Managers
 - Cloud Architects & Engineers
 - Network & Security Engineers
 - Compliance Officers & IT Auditors
 - Business Continuity & Disaster Recovery Managers
 - Professionals transitioning to cloud security roles
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Introduction:

As businesses rapidly shift to cloud-based solutions, understanding cloud computing and cybersecurity is essential for ensuring data security, compliance, and operational efficiency. This course provides participants with a deep understanding of cloud technologies, security frameworks, and risk management strategies to protect sensitive information and business operations in the digital era.

This **Cloud Computing & Cybersecurity** course focuses on:

- Core cloud computing concepts, architectures, and deployment models.
- Cybersecurity principles and strategies to mitigate risks in cloud environments.
- Compliance standards and regulatory requirements for cloud security.
- Best practices for securing data, applications, and networks in the cloud.
- Advanced threat detection, response, and incident management.

By the end of this course, participants will be equipped with the skills to design secure cloud infrastructures, manage cybersecurity risks, and ensure data protection in cloud-based environments.

Training Objectives:

By completing this course, participants will be able to:

- Understand cloud computing models (IaaS, PaaS, SaaS) and deployment strategies.
- Implement cybersecurity frameworks and best practices for cloud environments.
- Identify cloud security threats and develop risk mitigation plans.
- Apply encryption, identity management, and access control techniques.
- Ensure compliance with global cloud security regulations (GDPR, ISO 27001, NIST).
- Utilize cloud security tools and technologies for threat detection and response.

Course Outline:

Day 1: Introduction to Cloud Computing & Security

- Understanding cloud computing: IaaS, PaaS, SaaS, and deployment models
- The shared responsibility model in cloud security
- Key cybersecurity challenges in cloud environments
- Compliance requirements: GDPR, ISO 27001, NIST, and industry regulations
- Identifying cloud security threats: Data breaches, misconfigurations, insider threats

Day 2: Cloud Security Architecture & Compliance

- Designing secure cloud architectures: Best practices and frameworks
- Implementing identity and access management (IAM) in cloud environments
- Encryption techniques for securing cloud data and communications
- Network security strategies: Firewalls, VPNs, and micro-segmentation
- Cloud security monitoring, logging, and threat detection tools

Day 3: Threats, Vulnerabilities & Risk Management

- Common cloud security threats: DDoS attacks, malware, phishing, API vulnerabilities
- Conducting risk assessments in cloud environments
- Incident response planning for cloud-based cyber threats
- Business continuity and disaster recovery strategies in cloud security
- Security automation and AI-driven threat detection

Day 4: Securing Cloud Applications & Infrastructure

- Secure software development in cloud environments: DevSecOps principles
- Application security challenges in cloud-based systems
- Virtualization and container security (Docker, Kubernetes)
- Cloud-native security tools: CSPM, CWPP, SIEM solutions
- Implementing Zero Trust security architecture in the cloud

Day 5: Advanced Cloud Security Strategies & Best Practices

- Emerging trends in cloud security and cybersecurity threats
- Artificial intelligence (AI) and automation in cloud security operations
- Compliance audits and penetration testing in cloud environments
- Strategies for securing multi-cloud and hybrid cloud architectures
- Future-proofing cloud security: Best practices for long-term protection



DOCUMENTATION

The **MTC team** has meticulously prepared **high-quality training materials** for distribution to all delegates.

CERTIFICATES

An **accredited Certificate of Completion** will be awarded to participants who successfully attend and complete the program.

SCHEDULE

Course sessions are scheduled as follows:

- **Morning Session:** 09:00 AM – 1:00 PM
- **Afternoon Session:** 01:00 PM – 05:00 PM

REGISTRATION & PAYMENT

To register, please complete the **registration form** available on the course page and submit it with your **preferred payment method**. Alternatively, you can contact us via **email or WhatsApp** for assistance.

TRAVEL & TRANSPORT

We ensure a **seamless travel experience** by providing **airport-hotel-airport** transfers for all participants.