



Cloud Security Essentials Course: Building Resilient Cloud Infrastructure

18 - 22 May 2027
Vienna



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Course Overview:

The Cloud Security Essentials course is designed to give IT professionals a solid foundation in cloud computing security fundamentals, focusing on the core risks, controls, and compliance frameworks required to protect modern enterprises. Participants will explore the shared responsibility model, governance and compliance issues, threat management, and the security implications of different cloud deployment models IaaS, PaaS, SaaS, FaaS.

This Cloud Security Essentials training blends theoretical knowledge with practical insights derived from real-world case studies and industry frameworks such as NIST, CSA, and ISO standards. Learners will gain hands-on understanding of identity and access management IAM, data security, cloud logging and monitoring, privacy and compliance, and cloud incident response.

By the end, participants will have the knowledge to evaluate cloud service providers, select appropriate security controls, manage risks, and build resilient architectures. This Cloud Security Essentials certification preparation course serves as a pathway to professional credentials such as GIAC Cloud Security Essentials GCLD and also supports broader security certifications.

Target Audience:

- IT Security Professionals
- Cloud Security Analysts
- System and Network Administrators
- Compliance and Risk Officers
- IT Managers and Decision-Makers
- Professionals preparing for Cloud Security Essentials certification

Targeted Organizational Departments:

- IT and Cloud Infrastructure Teams
- Cybersecurity and Risk Management Units
- Compliance and Governance Divisions
- Internal Audit Departments
- Data Protection and Privacy Offices
- Cloud Operations and Engineering Teams

Targeted Industries:

- Banking, Financial Services, and Insurance BFSI
- Government and Public Sector
- Energy, Utilities, and Oil and Gas
- Healthcare and Pharmaceuticals
- Technology and Cloud Service Providers
- Telecom and Media Industries

Course Offerings:

By the end of the Cloud Security Essentials course, participants will be able to:

- Understand cloud computing security fundamentals and governance issues
- Apply identity and access management IAM principles to secure cloud resources
- Implement data protection and encryption techniques across cloud environments
- Evaluate cloud service providers AWS, Azure, GCP for compliance and security readiness
- Conduct threat assessments at the network, host, and application levels
- Manage privacy, compliance, and auditing requirements in cloud deployments
- Respond to cloud incidents with effective detection, forensics, and remediation

Training Methodology:

The Cloud Security Essentials training adopts a blended methodology combining case studies, group discussions, role-playing, and interactive labs. Participants will work through real-world scenarios involving cloud misconfigurations, IAM breaches, and compliance audits. Hands-on workshops simulate multi-cloud environments AWS, Azure, GCP to reinforce cloud computing security fundamentals.

Case studies from industry breaches are used to highlight critical lessons, while collaborative group exercises encourage peer-to-peer learning. Reflection and review sessions consolidate knowledge after each day. The approach ensures that participants not only understand Cloud Security Essentials but can also apply the concepts within their organizations.

Course Toolbox:

- Course workbook and reading pack
- Access to cloud security frameworks CSA CCM, NIST, ISO 27017
- Checklists for IAM, encryption, and compliance auditing
- Case study handouts and group exercises
- Online resources and references from the course
- Sample exam-style questions for Cloud Security Essentials certification preparation

Course Agenda



Day 1: Foundations of Cloud Security

- **Topic 1:** Introduction to Cloud Security Essentials and the SPI Framework
- **Topic 2:** Cloud Service Models IaaS, PaaS, SaaS, FaaS and Security Considerations
- **Topic 3:** Cloud Deployment Models Public, Private, Hybrid, Multi-Cloud
- **Topic 4:** Shared Responsibility Model and Governance Principles
- **Topic 5:** Core Risks and Threat Landscape in Cloud Environments
- **Topic 6:** Security Benefits and Challenges of Cloud Adoption
- **Reflection & Review:** Reviewing foundational principles of cloud computing security fundamentals

Day 2: Identity, Access, and Infrastructure Security

- **Topic 1:** Identity and Access Management IAM Principles in the Cloud
- **Topic 2:** IAM Challenges, Trust Boundaries, and Federation Models
- **Topic 3:** Network-Level Security and Threat Assessment
- **Topic 4:** Securing Cloud Hosts and Application Layers
- **Topic 5:** Cloud Storage Protection and Secrets Management
- **Topic 6:** Endpoint and Device Security in Cloud Environments
- **Reflection & Review:** Best practices in IAM and infrastructure defense

Day 3: Data Protection, Privacy, and Compliance

- **Topic 1:** Data Classification and Lifecycle Security in the Cloud
- **Topic 2:** Encryption Techniques At Rest, In Transit, In Use
- **Topic 3:** Data Loss Prevention DLP and Key Management Strategies
- **Topic 4:** Compliance Standards and Regulations CSA, NIST, ISO, GDPR, HIPAA
- **Topic 5:** Cloud Auditing and Continuous Compliance Monitoring
- **Topic 6:** Legal, Contractual, and Privacy Issues in Cloud Computing
- **Reflection & Review:** Ensuring robust data protection and compliance alignment

Day 4: Cloud Networking, Monitoring, and Incident Response

- **Topic 1:** Securing Cloud Networking, Segmentation, and Firewalls
- **Topic 2:** Logging, Monitoring, and Security Analytics in Cloud Platforms
- **Topic 3:** Incident Detection and Automated Response in Cloud Security
- **Topic 4:** Cloud Forensics and Post-Incident Analysis
- **Topic 5:** Penetration Testing and Vulnerability Scanning in the Cloud
- **Topic 6:** Business Continuity, Backup, and Disaster Recovery Strategies
- **Reflection & Review:** Lessons in monitoring, response, and continuity planning



Day 5: Cloud Security Strategy and Future Trends

- **Topic 1:** Security Management Standards and Risk Frameworks for Cloud Environments
- **Topic 2:** Governance, Risk, and Compliance GRC in Cloud Security Programs
- **Topic 3:** Automation, Infrastructure as Code, and Security Orchestration
- **Topic 4:** Securing Multi-Cloud and Hybrid Environments
- **Topic 5:** Emerging Cloud Security Threats and Mitigation Techniques
- **Topic 6:** Building a Long-Term Cloud Security Roadmap and Certification Readiness
- **Reflection & Review:** Final wrap-up, integrating strategies, and preparing for certification

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

No prior certification is required. However, participants should have a basic understanding of IT systems, networking, or security fundamentals.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is structured for 4–5 hours, with breaks and interactive sessions. The total course duration is approximately 20–25 hours over five days.

How does the Cloud Security Essentials course prepare participants for certification?

The course aligns with GIAC Cloud Security Essentials GCLD and other vendor-neutral frameworks. It integrates study content, real-world labs, and sample questions to help prepare for certification exams.

How This Course is Different from Other Cloud Security Essentials Courses:

This course focuses not only on technical defenses but also on governance, compliance, and risk management, which are critical for enterprises adopting multi-cloud platforms. Real case studies, peer collaboration, and applied labs ensure that learners can directly implement security measures when back at work.

Most importantly, this course emphasizes practical insight into tools rather than just providing tools—helping participants understand how IAM, encryption, monitoring, and compliance frameworks are used effectively in cloud computing security fundamentals. This balance of strategy and application makes the course ideal for IT teams aiming to strengthen their cloud security essentials certification readiness.



Training Course Categories

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Finance and Accounting Training Courses

Governance, Risk and Compliance Training Courses

Human Resources Training and Development Courses

IT Security Training & IT Training Courses

Leadership and Management Training Courses

Legal Training, Procurement and Contracting Courses

Maintenance Training and Engineering Training Courses

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