



Complete Cloud Security Professional Training Course



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Course Overview:

The course provides a deep understanding of cloud security, covering key concepts and preparing participants for the ISC2 CCSP Certification. It emphasizes practical application through real-world examples, integrating industry best practices and exploring advanced topics such as virtualization security and cloud security compliance. Learners will be equipped to tackle technical and legal challenges in cloud security.

Target Audience:

- Cloud Security Professionals
- IT Security Managers
- Aspiring CCSP candidates
- Cloud Computing Specialists
- IT professionals

Targeted Organizational Departments:

- IT Security and Governance departments
- Risk Management and Compliance teams
- Cloud Infrastructure and Operations teams
- Application Development teams
- Legal and Compliance departments

Targeted Industries:

- Financial Services
- Healthcare
- Technology and SaaS
- Government agencies
- Retail and E-commerce businesses

Course Offerings:

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



- Master the knowledge areas of the six CCSP domains, including cloud architecture security and cloud infrastructure security.
- Apply cloud security best practices in real-world scenarios.
- Conduct complete cloud security risk management assessments.
- Implement cloud security policies, including data encryption and secure cloud deployment models.
- Understand legal compliance cloud security and the governance frameworks required for secure cloud development.
- Prepare confidently for the ISC2 CCSP certification exam.

Training Methodology:

The course includes interactive sessions, case studies, and group discussions. Participants engage in hands-on activities to apply cloud security best practices and methods. Group work addresses security threats and risk assessments, while case studies showcase security incidents and governance. Feedback sessions guide cloud data security, virtualization security, and security monitoring, enabling participants to confidently apply their knowledge in real-world cloud environments.

Course Toolbox:

ebooks covering all six CCSP domains, including cloud platform and infrastructure security, cloud data security, and cloud application security.

Case studies on cloud security threats, cloud computing compliance, and secure cloud deployment models. Online resources for further reading on cloud security best practices, encryption, and cloud security standards.

Course Agenda:

Day 1: Cloud Concepts and Architecture

- **Topic 1:** Introduction to Cloud Computing Concepts
- **Topic 2:** Cloud Deployment Models and Multi-Cloud Architecture
- **Topic 3:** Cloud Service Models IaaS, PaaS, SaaS
- **Topic 4:** Cloud Computing Shared Responsibility Matrix and Considerations
- **Topic 5:** Understanding Multi-tenancy and Resource Sharing in Cloud
- **Topic 6:** Infrastructure as Code IaC Strategy
- **Reflection & Review:** Key learnings on cloud architecture and deployment models



Day 2: Cloud Data Security and Encryption

- **Topic 1:** Cloud Data Lifecycle Management
- **Topic 2:** Data Encryption Techniques Symmetric and Asymmetric Encryption
- **Topic 3:** Understanding and Managing Data Roles Owner, Custodian, User
- **Topic 4:** Data Protection Policies and Best Practices
- **Topic 5:** Common Threats on Cloud Storage Malware, Vulnerabilities
- **Topic 6:** Encryption Tools and Technologies in Cloud
- **Reflection & Review:** Overview of cloud data security and encryption strategies

Day 3: Cloud Platform and Infrastructure Security

- **Topic 1:** Cloud Infrastructure Security and Virtualization Security
- **Topic 2:** Containers and Kubernetes Security Best Practices
- **Topic 3:** Serverless Computing and Microservices Security
- **Topic 4:** Network Security in Cloud Firewalls, VPN, VLAN Segmentation
- **Topic 5:** Securing Cloud Platforms through Software-Defined Networks SDN
- **Topic 6:** Incident Response and Cloud Security Monitoring
- **Reflection & Review:** Review of cloud infrastructure security and response strategies

Day 4: Cloud Application Security and Development

- **Topic 1:** Secure Cloud Application Development Practices
- **Topic 2:** OWASP Top 10 Cloud Application Security Risks
- **Topic 3:** DevOps and Cloud Security Integration
- **Topic 4:** Penetration Testing in Cloud Environments
- **Topic 5:** Secure Coding Practices and Software Development Methodologies
- **Topic 6:** Third-Party Software Management and Vulnerability Testing
- **Reflection & Review:** Review of secure application development and testing strategies

Day 5: Legal, Risk, and Compliance in Cloud Security

- **Topic 1:** Legal Compliance for Cloud Security PII, PHI, and Privacy Regulations
- **Topic 2:** Risk Management Frameworks ISO 31000, NIST RMF
- **Topic 3:** Business Continuity Planning BCP and Disaster Recovery DR
- **Topic 4:** Cloud Security Standards and Frameworks CSA, PCI-DSS
- **Topic 5:** Auditing Cloud Security Controls and Reporting
- **Topic 6:** Vendor Management, SLAs, and Cloud Contracts
- **Reflection & Review:** Comprehensive review of legal compliance, risk management, and cloud security standards



How This Course is Different from Other Cloud Security Courses:

This course provides complete coverage of cloud security certification Prep, including ISC2 CCSP exam preparation. It offers real-world examples, and the latest cloud security standards and frameworks. The interactive sessions ensure mastery of cloud security concepts, operations, and legal compliance. Ideal for cloud security experts seeking certification and career advancement.



Training Course Categories

Agile PM and Project Management Training Courses

Certified Courses By International Bodies

Communication and Public Relations Training Courses

Data Analytics Training and Data Science Courses

Environment & Sustainability Training Courses

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

Marketing, Customer Relations, and Sales Courses

Occupational Health, Safety and Security Training Courses

Personal & Self-Development Training Courses

Quality and Operations Management Training Courses

Secretarial and Administration Training Courses

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