



Complete Cloud Security Professional Training Course



AGILE LEADERS
Training Center



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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:



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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



**Finance and
Accounting Training
Courses**



**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**



**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**



Training Course Categories



Marketing, Customer Relations, and Sales Courses



Occupational Health, Safety and Security Training Courses



Oil & Gas Training and Other Technical Courses



Personal & Self-Development Training Courses



Quality and Operations Management Training Courses



Secretarial and Administration Training Courses



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Training Cities



**Sharm El-Sheikh -
Egypt**



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Trabzon - Turkey



Vienna - Austria



Zanzibar - Tanzania



**Zoom - Online
Training**

WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



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