Document Generated: 11/12/2026

Learning Style: Virtual Classroom

Technology: ISC2

Difficulty: Advanced

Course Duration: 5 Days

ISC2 Certified Cloud Security Professional (CCSP)



ISC ^{2} certified Cloud Security Professional Exam (CCSSP) preparation course is an instructor lead, five day course. The courseware covers all the aspects of the cloud security certification exams; it includes strategies of securing data and system. Recording and detecting attacks and working alongside security agencies. It also covers the legalities and privacy protection in case of collaboration with the law enforcement agencies.

Course Objectives:

- Identify and explain the five characteristics required to satisfy the NIST definition of cloud computing
- Differentiate between various as-a-service delivery models and frameworks that are incorporated into the cloud computing reference architecture
- Explain strategies for protecting data at rest and data in motion
- Discuss strategies for safeguarding data, classifying data, ensuring privacy, assuring compliance with regulatory agencies, and working with authorities during legal investigations
- Contrast between forensic analysis in corporate data center and cloud computing environments

Audience:

- Cloud Security Architects
- Cloud Engineers
- Security Administrators
- Security Consultants
- Security Managers
- Systems Architects
- Enterprise Architects

Prerequisites:

- Five years of cumulative, full-time working experience in IT (three of which must be in information security, and one of which must be in one of the six CCSP CBK domains)

Course Outline:

Domain 1. Cloud Concepts, Architecture and Design

- Cloud computing concepts and characteristics (on-demand self-service,

elasticity, multi-tenancy)

- Cloud service models:
    - IaaS (Infrastructure as a Service)
    - PaaS (Platform as a Service)
    - SaaS (Software as a Service)
- Cloud deployment models:
    - Public cloud
    - Private cloud
    - Hybrid cloud
    - Multi-cloud
- Shared Responsibility Model
- Cloud reference architectures
- Secure cloud design principles
- Business requirements and risk management
- Cloud migration strategies

Domain 2. Cloud Data Security

- Data lifecycle management
- Data classification and ownership
- Encryption methods
- Key management systems
- Tokenization and masking
- Data Loss Prevention (DLP)
- Secure data deletion
- Privacy protection

- Data discovery and governance

Domain 3. Cloud Platform & Infrastructure Security

- Cloud infrastructure components
- Virtualization security
- Container and serverless security
- Network security in the cloud
- Identity and Access Management (IAM)
- Secure configuration of cloud resources
- Infrastructure hardening
- Microservices security
- Zero Trust architecture

Domain 4. Cloud Application Security

- Secure software development lifecycle (SSDLC)
- DevSecOps practices
- Application vulnerabilities
- API security
- Secure coding practices
- Application testing methods
- Identity federation
- Application authentication and authorization

Domain 5. Cloud Security Operations

- Cloud monitoring and logging
- Incident response in cloud
- Disaster recovery and business continuity

- Backup and restore strategies
- Security automation
- Patch management
- Vulnerability management
- Security orchestration

Domain 6. Legal, Risk and Compliance

- Data protection laws and regulations
- Privacy regulations (GDPR etc.)
- Risk management frameworks
- Compliance audits
- Contract and vendor management
- Service Level Agreements (SLAs)
- Cross-border data transfer regulations
- E-discovery and legal hold

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