

CCSP Certification Training Course Outline

Duration: 32–40 Hours

Level: Advanced

Delivery Mode: Online / Offline

Certification Body: (ISC)²

Target Audience: Cloud Security Architects, System Engineers, Security Administrators, and IT Professionals

Module 1: Cloud Concepts, Architecture and Design

- Cloud Computing Concepts and Service Models (IaaS, PaaS, SaaS)
 - Cloud Deployment Models (Public, Private, Hybrid, Community)
 - Cloud Reference Architectures and Design Principles
 - Cloud Security Considerations
 - Shared Responsibility Model
 - Risk and Impact Assessment
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Module 2: Cloud Data Security

- Data Lifecycle in the Cloud
 - Data Classification and Discovery
 - Cloud Data Encryption and Tokenization
 - Data Retention, Deletion, and Archiving
 - Data Rights Management
 - Storage Architecture and Security
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Module 3: Cloud Platform and Infrastructure Security

- Cloud Infrastructure Components and Management
 - Virtualization Security
 - Network and Host Security Controls
 - Cloud Infrastructure Risks and Mitigation
 - Physical and Environmental Security for Cloud Infrastructure
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Module 4: Cloud Application Security

- Secure Software Development Lifecycle (SDLC) in the Cloud
 - Cloud Application Architecture and API Security
 - CI/CD and DevSecOps Integration
 - Secure Coding Guidelines for Cloud Applications
 - Application Testing and Vulnerability Management
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Module 5: Cloud Security Operations

- Cloud Security Operations Processes
 - Incident Response and Recovery in Cloud
 - Logging and Monitoring Strategies
 - Security Information and Event Management (SIEM)
 - Disaster Recovery and Business Continuity
 - Patch and Configuration Management in the Cloud
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Module 6: Legal, Risk, and Compliance

- Legal Requirements and Unique Risks in Cloud Environments
 - International Data Protection and Privacy Laws (GDPR, etc.)
 - Risk Assessment and Treatment Strategies
 - Contractual and Supply Chain Risk Management
 - Compliance Frameworks (ISO/IEC 27001, NIST, CSA STAR)
 - Audit Planning and Execution in Cloud Context
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CCSP Exam Preparation and Review

- Review of 6 CCSP Domains
- Practice Questions and Mock Exams
- Study Techniques and Time Management
- Certification Application Process
- Continuing Professional Education (CPE) Guidance