



ISC2 TRAINING

CCSP: Certified Cloud Security Professional

Master cloud security design, implementation, and operations. Earn your CCSP certification to protect critical cloud assets effectively.

DURATION

40 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

The ISC2 CCSP: Certified Cloud Security Professional course is an intensive program designed for experienced IT professionals seeking to validate their expertise in cloud security architecture, design, operations, and service orchestration. This certification is globally recognized as the premier credential for professionals who secure cloud environments. Through this course, participants will gain a deep understanding of critical cloud security concepts, including cloud data security, cloud platform and infrastructure security, cloud application security, and the legal and compliance issues specific to cloud computing. You will learn to apply industry best practices to secure data, applications, and infrastructure across various cloud service models (IaaS, PaaS, SaaS) and deployment strategies.

Earning your CCSP certification significantly enhances your ability to manage and protect sensitive data in cloud environments, ensuring compliance with regulatory requirements and mitigating risks. The course covers core technologies such as virtualization, containerization, encryption, identity and access management (IAM), network security controls, and security information and event management (SIEM) within a cloud context. By mastering these areas, you will be equipped to design, implement, and maintain robust cloud security postures, making you an invaluable asset to organizations transitioning to or operating within the cloud. This certification is a strategic investment in your career, opening doors to advanced roles in a rapidly expanding field.

Duration	40 hours
Level	Intermediate
Vendor	ISC2
Exam Code	CCSP

PREREQUISITES

- Basic understanding of IT concepts
- Familiarity with operating systems
- Basic networking knowledge

COURSE CURRICULUM

01 Module 1: Cloud Concepts, Architecture, and Design

- Understanding Cloud Computing Concepts
- Cloud Reference Architecture
- Cloud Security Concepts and Principles
- Cloud Service Models (IaaS, PaaS, SaaS)
- Cloud Deployment Models (Public, Private, Hybrid, Community)
- Designing Secure Cloud Infrastructure

02 Module 2: Cloud Data Security

- Cloud Data Lifecycle Management
- Data Discovery and Classification
- Cloud Data Storage Security
- Encryption and Key Management in the Cloud
- Data Loss Prevention (DLP) Strategies
- Data Masking, Tokenization, and Anonymization

03 Module 3: Cloud Platform and Infrastructure Security

- Securing Cloud Infrastructure Components
- Virtualization and Container Security
- Network Security in the Cloud (VPCs, Firewalls, WAFs)
- Managing Cloud Compute, Storage, and Networking
- Physical and Environmental Security for Cloud Datacenters
- Business Continuity and Disaster Recovery in the Cloud

04 Module 4: Cloud Application Security

- Secure Software Development Lifecycle (SSDLC) in Cloud
- Cloud Application Security Vulnerabilities (OWASP Top 10)
- Application Security Testing (SAST, DAST, IAST)
- API Security for Cloud Services
- Identity and Access Management (IAM) in Cloud Applications
- DevSecOps Integration

05 Module 5: Cloud Security Operations

- Cloud Security Operations Management
- Implementing and Managing Physical and Logical Access Controls
- Auditing and Monitoring Cloud Environments (CASBs, SIEM)
- Security Incident Response in the Cloud
- Vulnerability and Patch Management for Cloud Systems
- Risk Management and Assessment in Cloud Operations

06 Module 6: Legal, Risk, and Compliance

- Legal Frameworks and Regulations (GDPR, HIPAA, PCI DSS)
- Privacy Issues in Cloud Computing
- Audits, Certifications, and Assessments for Cloud Services
- Cloud Contractual Agreements and SLAs
- Enterprise Risk Management for Cloud Adoption
- Ethics and Professionalism in Cloud Security

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Cloud Security Architect**
- > **Cloud Security Engineer**
- > **Information Security Manager (with Cloud Specialization)**

FREQUENTLY ASKED QUESTIONS

Q: What prior experience or certifications are recommended before pursuing the CCSP certification?

To qualify for the CCSP certification, ISC2 recommends candidates have a minimum of five years of cumulative paid work experience in information technology, with three years in information security, and one year in one or more of the six CCSP domains. Alternatively, holding a CISSP certification can satisfy the entire experience requirement. This course is designed for professionals with a foundational understanding of IT and security principles who wish to specialize in cloud security.

Q: How does the CCSP certification differentiate itself from other cloud security certifications, and what unique value does it offer?

The CCSP stands out by focusing on the vendor-agnostic principles and best practices for securing cloud environments across all service and deployment models. Unlike vendor-specific cloud security certifications that tie you to a particular platform (e.g., AWS, Azure, GCP), CCSP provides a comprehensive, foundational understanding of cloud security concepts, architecture, operations, and legal aspects applicable to any cloud environment. This broad, strategic perspective makes CCSP holders uniquely qualified to design, implement, and manage secure cloud solutions, regardless of the underlying cloud provider, offering versatility and long-term career resilience.

Q: Beyond theoretical knowledge, what practical skills will I gain that I can immediately apply in a cloud security role?

This CCSP course equips you with highly practical skills essential for real-world cloud security challenges. You will learn to effectively assess and mitigate cloud-specific risks, implement robust data protection strategies using advanced encryption and key management, design secure cloud architectures leveraging various cloud services, and respond to security incidents in a cloud context. You'll gain expertise in securing virtualized environments, understanding shared responsibility models, and navigating complex regulatory compliance frameworks within the cloud. These skills translate directly into improved security postures for your organization's cloud deployments, enabling you to build and maintain secure, compliant, and resilient cloud systems.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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