Training: ISC2
ISC2 CCSP Certification Prep Course

TRAINING GOALS:

ISC2 developed the Certified Cloud Security Professional (CCSP) credential to ensure that cloud security professionals have the required knowledge, skills, and abilities in cloud security design, implementation, architecture, operations, controls, and compliance with regulatory frameworks. A CCSP applies information security expertise to a cloud computing environment and demonstrates competence in cloud security architecture, design, operations, and service orchestration.

Each participant in an authorized training ISC2 CCSP Certification Prep Course held in Compendium CE will receive a free CCSP Certification Exam voucher.

Led by an ISC2 Authorized Instructor, this training provides a comprehensive review of cloud security concepts, helping participants refresh their knowledge, identify areas that require further study, and prepare for the CCSP exam. It also ensures relevance across all disciplines in the field of cloud security. Successful candidates are competent in the following six domains:

- Domain 1. Cloud Concepts, Architecture and Design
- Domain 2. Cloud Data Security
- Domain 3. Cloud Platform and Infrastructure Security
- Domain 4. Cloud Application Security
- Domain 5. Cloud Security Operations
- Domain 6. Legal, Risk and Compliance

CCSP is in compliance with the stringent requirements of the ANSI National Accreditation Board (ANAB) ISO/IEC Standard 17024.

Course objectives

After completing this course, you will be able to:

- Understand legal frameworks and guidelines that affect cloud services.

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- Recognize the fundamentals of data privacy regulatory/legislative mandates.
- Assess risks, vulnerability, threats, and attacks in the cloud environment.
- Evaluate the design and plan for cloud infrastructure security controls.
- Evaluate what is necessary to manage security operations.
- Understand what operational controls and standards to implement.
- Describe the types of cloud deployment models in the types of “as a service” cloud models currently available today.
- Identify key terminology, and associated definitions related to cloud technology.
- Establish a common terminology for use with in your team or workgroup.
- Comprehend key Artificial Intelligence (AI) and Machine Learning (ML) concepts relevant to cloud security.
- Understand data protection considerations for Artificial Intelligence (AI) and Machine Learning (ML) data in cloud environments.
- Build a business case for cloud adoption and determine business units that benefit from cloud migration strategies.

Intended audience

Prior to taking this course, the learner should have the experience, skills or knowledge obtained while serving in roles similar to the following:

- Security Manager
- Systems Architect
- Systems Engineer
- Security Architect
- Security Consultant
- Security Engineer
- Enterprise Architect
- Security Administrator

CONSPECT:

- Cloud Concepts, Architecture and Design
  - Understand cloud computing concepts
  - Describe cloud reference architecture
  - Understand security concepts relevant to cloud computing
  - Understand design principles of secure cloud computing
  - Evaluate Cloud Service Providers (CSP)

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- Comprehend Artificial Intelligence (AI)/Machine Learning (ML)
- Cloud Data Security
  - Describe cloud data concepts
  - Design and implement cloud data storage architectures
  - Design and apply data security technologies and strategies
  - Implement data discovery
  - Plan and implement data classification
  - Design and implement Information Rights Management (IRM)
  - Plan and implement data retention, deletion and archiving policies
  - Design and implement auditability, traceability and accountability of data events
  - Comprehend data protection of Artificial Intelligence (AI) and Machine Learning (ML) data
- Cloud Platform and Infrastructure Security
  - Comprehend cloud infrastructure components
  - Design a secure data center
  - Analyze risks associated with cloud infrastructure and platforms
  - Plan and implementation of security controls
  - Plan Business Continuity (BC) and Disaster Recovery (DR)
- Cloud Application Security
  - Advocate training and awareness for application security
  - Describe the Secure Software Development Life Cycle (SDLC) process
  - Apply the Secure Software Development Life Cycle (SDLC)
  - Apply cloud software assurance and validation
  - Use verified secure software
  - Comprehend and apply the specifics of cloud application architecture
  - Design appropriate Identity and Access Management (IAM) solutions
- Cloud Security Operations
  - Build and implement physical and logical infrastructure for cloud environment
  - Operate and maintain physical and logical infrastructure for cloud environment
  - Implement operational controls and standards (e.g., National Institute Of Standards And Technology (NIST), International Organization For Standardization (ISO), Health Insurance Portability and Accountability Act (HIPPA), Control Objectives For Information And Related Technology (COBIT), Center For Internet Security (CIS) Controls, Comittee Of Sponsoring Organizations (COSO), Information Technology Infrastructure Library (ITIL) International Organization For Standardization/International Electrotechnical Commission (ISO/IEC) 20000-1)
  - Support digital forensics
  - Manage communication with relevant parties
  - Manage security operations

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- Legal, Risk and Compliance
  - Articulate legal requirements and unique risks within the cloud environment
  - Understand privacy requirements
  - Understand audit processes, methodologies, and required adaptations for a cloud environment
  - Understand implications of cloud to enterprise risk management
  - Understand outsourcing and cloud contract design

REQUIREMENTS:

Candidates must have a minimum of five years cumulative, full-time experience in information technology (IT). Three years must be in cybersecurity, and one year must be in one or more of the six domains of the current CCSP Exam Outline. Earning a post-secondary degree (bachelors or masters) in computer science, IT or related fields may satisfy up to one year of the required experience. Earning CSA's CCSK certificate can be substituted for one year of experience. Only one year of experience can be waived. An active CISSP credential may be substituted for the entire CCSP experience requirement.

Part-time work and internships may also count towards the experience requirement. A candidate that doesn't have the required experience to become a CCSP may become an Associate of ISC2 by successfully passing the CCSP examination. The Associate of ISC2 will then have six years to earn the five years required experience. You can learn more about CCSP experience requirements and how to account for part-time work and internships at www.isc2.org/Certifications/CCSP/experience-requirements.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by ISC2 (course completion).

In order to complete the course, receive a certificate of completion and earn ISC2 continuing professional education (CPE) credits learners must:

- Complete all learning activities within the course.
- Complete a course evaluation.
- Score 70% or higher on the final assessment.

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A Certificate of Completion will be provided in class by your instructor once you have completed a course by meeting all the requirements. Please retain the certificate of completion as proof of credits earned.

This course will help prepare you also for the CCSP certification exam available at Pearson VUE test centers. The CCSP exam uses Computerized Adaptive Testing (CAT) for all English, Simplified Chinese, German, Japanese exams. You can learn more about CCSP CAT at www.isc2.org/certifications/computerized-adaptive-testing

- Length of exam: 3 hours
- Number of items: 100 - 150
- Item format: Multiple choice and advanced item types
- Passing grade: 700 out of 1000 points
- Exam availability: English, Chinese, German, Japanese

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TRAINER:

ISC2 Authorized Instructor

ADDITIONAL INFORMATION:

Participating in this training you get 40 CPE (Continuing Professional Education) credits.

CPE credits for ISC2 credentials must be self-reported by members and associates through the ISC2 CPE Portal accessible via www.isc2.org using your member login credentials.

CPE credits earned for this course may be eligible for continuing professional education credits for non-ISC2 certifications. Please visit the continuing education requirements established by the credentialing organization for eligibility.

For specific questions related to your CPE credits or the CPE portal please contact member support - membersupport@isc2.org.

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