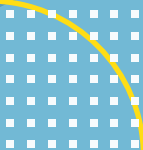CCSP

Certified Cloud
Security Professional

CCSP

ABOUT
THE COURSE

Certified Cloud Security Professional

Duration: 40 hours / 5 days

To ensure that Cloud Security professionals have the knowledge, skills, and capabilities required in Cloud security design, implementation, architecture, operations, controls, compliance with regulations and dealing with cloud data security and protection as well as infrastructure security.

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COURSE OUTLINE

Certified Cloud Security Professional

CCSP

Cloud Concepts, Architecture and Design

01 Understand Cloud Computing Concepts.

02 Describe Cloud Reference Architecture.

03 Understand Security Concepts Relevant to Cloud Computing.

04 Understand Design Principles of Secure Cloud Computing.

05 Evaluate Cloud Service Providers.

COURSE
OUTLINE

Certified Cloud
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Cloud Data Security

01 Describe Cloud Data Concepts.

02 Design and Implement Cloud Data Storage Architectures.

03 Design and Apply Data Security Technologies and Strategies.

04 Implement Data Discovery.

05 Implement Data Classification.

06 Design and Implement Information Rights Management (IRM).

07 Plan and Implement Data Retention, Deletion and Archiving Policies.

08 Design and Implement Auditability,Traceability and Accountability of Data Events.

COURSE
OUTLINE

CCSP
Certified Cloud Security Professional

Cloud Platform & Infrastructure Security.

01 Comprehend Cloud Infrastructure Components.

02 Design a Secure Data Center.

03 Analyze Risks Associated with Cloud Infrastructure.

04 Design and Plan Security Controls.

05 Plan Disaster Recovery (DR) and Business Continuity (BC) .

COURSE
OUTLINE

Certified Cloud
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Cloud Application Security

01 Advocate Training and Awareness for Application Security.

02 Describe the Secure Software Development Life Cycle (SDLC) Process.

03 Apply the Secure Software Development Life Cycle (SDLC).

04 Apply Cloud Software Assurance and Validation.

05 Use Verified Secure Software.

06 Comprehend the Specifics of Cloud Application Architecture.

07 Design Appropriate Identity and Access Management (IAM) Solutions.

COURSE OUTLINE

Certified Cloud
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Cloud Application Security

01 Implement and Build Physical and Logical Infrastructure for Cloud Environment.

02 Operate Physical and Logical Infrastructure for Cloud Environment.

03 Manage Physical and Logical Infrastructure for Cloud Environment.

04 Implement Operational Controls and Standards (e.g., Information Technology

05 Support Digital Forensics.

06 Manage Communication with Relevant Parties.

07 Manage Security Operations.

COURSE
OUTLINE

Certified Cloud
Security Professional

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Legal, Risk and Compliance.

01 Articulate Legal Requirements and Unique Risks within the Cloud Environment.

02 Understand Privacy Issues.

03 Understand Audit Process, Methodologies, and Required Adaptations for a Cloud Environment.

04 Understand Implications of Cloud to Enterprise Risk Management.

05 Understand Outsourcing and Cloud Contract Design.

COURSE
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Add Value

Cloud Reference Structure Description - Cloud Computing Activities.

Understand the cloud service (for example, types of application capabilities, types of platform capabilities, types of infrastructure capabilities.

Data and media sterilization (for example, writing, erasing encryption).

Apply cloud publishing models (for example, public, private, mixed, community).

Network security (for example, network security groups).

Secure virtualization (for example, Hypervisor Security, container security.

COURSE
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COURSE
Add Value

Understanding the Design Principles for Secure Cloud Computing - The Secure Cloud Data Life Cycle.

Cloud Service Providers Assessment - Verification of Standards (for example, International Organization for Standardization / International Electro-Technical Commission (ISO / IEC) 27017, Payment Card Industry Data Security Standard (PCI DSS)).

Design and implementation of cloud data storage structures - Types of storage (for example, long-term, ephemeral, raw disk).

Define functional safety requirements (such as portability, interoperability, and vendor lock).

Design and implementation of data security technologies and strategies - encryption and key management.

Data loss prevention (DLP) and interference.

COURSE
Add Value

Deselect data (such as cloaking).

Designing and implementing audit traceability and accountability - defining event sources and identity attribution requirements.

IRM design and implementation - objectives (eg data rights, savings, access models).

Data classification application - mapping.

]Plan and implement data retention, deletion and archiving policies - data retention policies.

Procedures for deleting data and mechanisms and archiving data.

COURSE
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COURSE
Add Value

Record, store and analyze data events.

Cloud infrastructure risk analysis - risk assessment and analysis, system protection, communications, and virtualization systems

Understanding the components of cloud infrastructure - physical environment.

Safe data center design - logical design (for example, tenant partitioning, access control).

Development of a Disaster Recovery (DR) and Business Continuity (BC) Plan - Cloud-related risks.

COURSE
Prerequisite

There are no prerequisites to take the CCSP course.

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