

Certified Cloud Security Professional (CCSP)

Course Syllabus

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Domain 1. 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
- Identify Trusted Cloud Services

Domain 2. Cloud Data Security

- Understand Cloud Data Lifecycle
- Design and implement Cloud Data Storage Architectures
- Design and Apply Data Security Strategies
- Understand and implement Data Discovery and Classification Technologies
- Design and implement Relevant Jurisdictional Data Protections for Personally identifiable Information (PII)
- Design and implement Data Rights Management
- Plan and Implement Data Retention, Deletion, and Archiving Policies
- Design and implement Auditability Traceability and Accountability of Data Events

Domain 3. Cloud Platform & Infrastructure Security

- Comprehend Cloud infrastructure Components
- Analyze Risks Associated with Cloud Infrastructure
- Design and Plan Security Controls
- Plan Disaster Recovery and Business Continuity Management

Domain 4. Cloud Application Security

- Recognize the need for Training and Awareness in Application Security
- Understand Cloud Software Assurance and Validation
- Use Verified Secure Software
- Comprehend the Software Development Life-Cycle (SDLC) Process
- Apply the Secure Software Development Life-Cycle
- Comprehend the Specifics of Cloud Application Architecture.
- Design Appropriate Identity and Access Management (IAM) Solutions

Domain 5. Cloud Security Operations

- Support the Planning Process for the Data Center Design
- Implement and Build Physical Infrastructure for Cloud Environment
- Run Physical Infrastructure for Cloud Environment
- Manage Physical Infrastructure for Cloud Environment

- Build Logical Infrastructure for Cloud Environment
- Run Logical Infrastructure for Cloud Environment
- Manage Logical Infrastructure for Cloud Environment
- Ensure Compliance with Regulations and Controls (e.g. ITIL ISO/IEC 20000-1))
- Conduct Risk Assessment to Logical and Physical Infrastructure
- Understand the Collection, Acquisition and Preservation of Digital Evidence
- Manage Communication with Relevant Parties

Domain 6. Legal, Risk, and Compliance

- Understand Legal Requirements and Unique Risks within the Cloud Environment
- Understand Privacy Issues, Including Jurisdictional Variation
- Understand Audit Process, Methodologies, and Required Adaption's for a Cloud Environment
- Understand Implications of Cloud to Enterprise Risk Management
- Understand Outsourcing and Cloud Contract Design
- Execute Vendor Management

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