

Certified Cloud Security Professional (CCSP) Training & Certification Courses

Course Details

Course Outline

1. Architecture Concepts and Design Requirements

- Cloud Computing Concepts
- Cloud Reference Architecture
- Security Concepts Relevant to Cloud Computing
- Design Principles of Secure Cloud Computing
- Trusted Cloud Services

2. Cloud Data Security

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

3. Cloud Platform and Infrastructure Security

- Cloud Infrastructure Components
- Risks Associated to Cloud Infrastructure
- Design and Plan Security Controls
- Plan Disaster Recovery and Business Continuity Management

4. Cloud Application Security

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

5. 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 (ITIL, ISO/IEC 20000-I)
- Conduct Risk Assessment to Logical and Physical Infrastructure
- Collection, Acquisition, and Preservation of Digital Evidence
- Manage Communication with Relevant Parties

6. Legal and Compliance

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