CCSP- Certified Cloud Security Professional

Days: 5

Description: The goal of the course is to prepare professionals for the challenging CCSP exam by covering the objectives of the exam based on the six domains as defined in the (ISC)2 CCSP common body of knowledge.

Audience: The CCSP is ideal for IT and information security leaders responsible for applying best practices to cloud security architecture, design, operations and service orchestration

Course Objectives: By the end of the course, you should be able to meet the following objectives:

- Successfully pass the CCSP exam
- Understand the fundamentals of the cloud computing architecture framework
- Understand security challenges associated with different types of cloud services
- Identify and evaluate security risks for their organization's cloud environments
- Select and implement appropriate controls to ensure secure implementation of cloud services
- Thoroughly understand the 6 essential core domains of the CCSP common body of knowledge:
    1. Architectural Concepts & Design Requirements
    2. Cloud Data Security
    3. Cloud Platform & Infrastructure Security
    4. Cloud Application Security
    5. Operations
    6. Legal & Compliance

OUTLINE:

DOMAIN 1: CLOUD CONCEPTS, ARCHITECTURE AND DESIGN

- Cloud Computing Definitions and principles
- Secure cloud architecture design
- Virtualization and storage fundamentals

DOMAIN 2: CLOUD DATA SECURITY

- Cloud data lifecycle and threats
- Data encryption and masking
- Data rights management and privacy controls

DOMAIN 3: CLOUD PLATFORM AND INFRASTRUCTURE SECURITY

- Securing cloud infrastructure components
- Risk assessment and mitigation strategies
- Infrastructure virtualization and containers

DOMAIN 4: CLOUD APPLICATION SECURITY

- Secure software development lifecycle (SDLC)
- Application architecture in the cloud
- Identity and access management (IAM)

DOMAIN 5: CLOUD SECURITY OPERATIONS

- Security operations and incident response
- Logging, monitoring, and auditing
- Business continuity and disaster recovery

DOMAIN 6: LEGAL, RISK, AND COMPLIANCE

- Legal requirements and unique cloud risks
- International regulations and standards
- Governance and compliance frameworks