

## **CCAK - Certificate of Cloud Auditing Knowledge**

### **Course Outline**

#### **Module 1: Cloud Governance**

- Overview of governance
- Cloud assurance
- Cloud governance frameworks
- Cloud risk management
- Cloud governance tools

#### **Module 2: Cloud Compliance Program**

- Designing a cloud compliance program
- Building a cloud compliance program
- Legal and regulatory requirements
- Standards and security frameworks
- Identifying controls and measuring effectiveness
- CSA certification, attestation, and validation

#### **Module 3: CCM and CAIQ Goals, Objectives and Structure**

- CCM (Cloud Controls Matrix)
- CAIQ (Consensus Assessments Initiative Questionnaire)
- Relationship to standards: mappings and gap analysis
- Transition from CCM V3.0.1 to CCM V4

#### **Module 4: A Threat Analysis Methodology for Cloud Using CCM**

- Definitions and purpose
- Attack details and impacts
- Mitigating controls and metrics
- Use case

#### **Module 5: Evaluating a Cloud Compliance Program**

- Evaluation approach
- A governance perspective
- Legal, regulatory, and standards perspectives
- Risk perspectives
- Service changes implications
- The need for continuous assurance/continuous compliance

#### **Module 6: Cloud Auditing**

- Audit characteristics, criteria, and principles
- Auditing standards for cloud computing
- Auditing an on-premises environment vs. cloud
- Differences in assessing cloud services and cloud delivery models
- Cloud audit building, planning, and execution

#### **Module 7: CCM: Auditing Controls**

- CCM audit scoping guidance
- CCM risk evaluation guide
- CCM audit workbook
- CCM auditing example

#### **Module 8: Continuous Assurance and Compliance**

- DevOps and DevSecOps
- Auditing CI/CD pipelines
- DevSecOps automation and maturity

#### **Module 9: STAR Program**

- Standard for security and privacy
- Open Certification Framework
- STAR Registry
- STAR Level 1
- STAR Level 2
- STAR Level 3

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