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CSA cloud security alliance® | ISACA

ADVANCED

CLOUD SECURITY GOVERNANCE

ACE **CCAK** & **CCSK** CERTIFICATIONS

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Course Highlights

- **50-Hour** Instructor-led Training
- Real-world Case Studies
- Hands-on Labs
- Scenario-based Learning
- Extended Post-training Support
- Access Recorded Sessions
- Resume Optimization
- 100% Job Assistance
- Certified Trainer **(18+ Yrs. Exp.)**

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About Course

The Advanced Cloud Security Governance Course from InfosecTrain provides participants with an in-depth understanding of the diverse aspects of cloud security. This comprehensive course encompasses governance, risk management, identity management, data security, compliance, incident response, network security, cloud infrastructure security, legal considerations, cost management, and more.

Participants will acquire practical insights and hands-on experience in securing cloud environments and preparing for the **Certified Cloud Audit Knowledge (CCAK)** and **Certificate of Cloud Security Knowledge (CCSK)** exams. Tailored to meet the evolving demands of the cloud security landscape, this curriculum is essential for professionals aiming to excel in cloud security governance.

Course Objectives

- Master the fundamentals of cloud security and risk assessment methodologies.
- Implement compliance controls and audit principles within cloud environments.
- Designed and managed robust Identity and Access Management (IAM) solutions for the cloud.
- Develop comprehensive data security and encryption strategies to safeguard sensitive information.
- Secure cloud networks through network segmentation and advanced architectural designs.
- Prepare for incident response and conduct cloud forensics during security breaches.
- Evaluate cloud security using established methodologies and achieve recognized certifications.
- Make informed budgeting decisions while maintaining high-security standards.
- Navigate legal frameworks, contracts, and electronic discovery specific to cloud settings.
- Understand the significance of the CSA STAR Program for cloud security and its application.

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Target Audience

- Information Security Professionals
- Cloud Security Architects
- Enterprise Risk Management Professionals
- Cloud Managers
- GRC Professionals

Pre-requisites

- Basic understanding of cloud computing and security concepts.
- Some experience in information security or risk management is beneficial but not mandatory.

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18+ Years of Experience

Cloud Audit | CCSP | CCSK | CCAK | AWS CS-S | AWS CAN–S | AWS CSA-P | AWS CDE-P | MCT | CCAK | Azure Adv. Architect & Security | GCP PCA | GCP PCSE | CEH | RHCE

- 18+ years of experience and proven expertise in deploying, migrating, auditing and securing various public cloud platforms including AWS, GCP, Azure etc.
- Trained over 1000+ students globally including those from fortune 500 companies and recognized as a Microsoft Certified Trainer.
- Performing as an Enterprise Cloud Security Architect, Cloud GRC Expert, Auditor & Cloud Migration Strategist for over 15 years and served over 60+ enterprises worldwide.
- Actively contributing as a Technical Writer and Subject Matter Expert for various magazines, websites & organizations worldwide.

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Course Content

Module 1 Cloud Computing Concepts & Architecture

- Cloud Computing Overview
- Essential characteristics, benefits, and challenges
- Abstraction & Orchestration
- Cloud Service Models: IaaS, PaaS & SaaS
- Deployment Models: Public, Private, Hybrid & Community
- CSA Enterprise Architecture Model
- Cloud Security Overview
- Shared Security Responsibility Model
- Scope, Responsibilities & Models
- Threat landscape and new attack vectors in cloud

Module 2 Introduction to Cloud Security Governance

- Understanding cloud security governance
- Exploring the role of cloud security governance in overall risk management
- Leveraging key tools for governance in the cloud & Shared Security Responsibility Model
- Analysing cloud-specific threats and attack vectors

CASE STUDY: Capital One Data Breach and its Timeline

Module 3 Cloud Risk Assessment and Management

- Identifying cloud-specific risks and threats
- Risk assessment methodologies for cloud environments
- Developing risk management strategies
- Cloud risk monitoring and continuous improvement

CASE STUDY: Conducting a Cloud Risk Assessment & Creating a sample risk assessment report

Module 4 Cloud Compliance & Audit

- Cloud Compliance Program Overview
- Design & Build a Cloud Compliance Program
- Cloud-Relevant Laws & Regulations Examples
- Implementing compliance controls in cloud environments
- Compliance Inheritance
- Artifacts of Compliance
- Defining controls and evaluating the effectiveness
- Audit characteristics, principles, and criteria in Cloud
- Auditing and reporting in the cloud.
- Auditing standards for cloud computing

CASE STUDY: Enabling PCI DSS Compliance on AWS

Module 5 Organization Management

- Organization Hierarchy Models
- Managing Organization-Level Security Within a Provider
- Considerations for Hybrid & Multi-Cloud Deployments

Module 6 Identity and Access Management (IAM) in the Cloud

- Principles of IAM in cloud environments
- Federation, Single sign-on (SSO) and multi-factor authentication (MFA) in the cloud
- Zero Trust Model (ZTMF)

LABS

- Securing AWS Root User Accounts
- Creating Users & Configuring IAM Policies
- Conditional Access
- AWS Roles & STS

CASE STUDY

Best Practices & Baselining Identity & Access Management in AWS

Module 7 Cloud Data Security and Encryption

- Primer on Cloud Storage
- Data Security Tools & Techniques
- Building a proper data classification program for the cloud

- Data dispersion and resiliency
- Data Encryption and Key Management best practices
- Data retention, deletion, and archiving policies for cloud
- Data Sovereignty & Legal hold challenges and preparation

LABS

- Configuring EBS Volume
- Encrypting an EBS Volume & Snapshot
- AWS KMS Key Management

SCENARIO DISCUSSION

Data encryption strategies, 3rd party integration, and practical architecture

Module 8 Cloud Infrastructure & Networking

- Securing virtual networks in the cloud
- Network segmentation and isolation strategies
- Application and network-level firewalls for cloud environments
- Attack distribution and DDoS protection in the cloud
- Zero Trust for Cloud Infrastructure & Networks
- Secure Access Service Edge (SASE)

LABS

- Configure Virtual Private Network (VPC) on AWS
- Configuring Security Groups & NACLs
- Understanding Route Tables
- AWS Inspector Overview

Module 9 Cloud Workload Security

- Types of Cloud Workloads
- Impact on Workload Security Controls
- Securing Virtual Machines
- Securing Containers
- Securing Serverless and Function as a Service
- Securing AI Workloads
- AI-System Threats
- AI Risk Mitigation and Shared Responsibilities

Module 10 Security Monitoring

- Cloud Monitoring
- Beyond Logs
- Posture Management
- Cloud Telemetry Sources
- Collection Architectures
- AI for Security Monitoring

LABS

- Configure Baseline Security Monitoring
- Configure CloudTrail Logs
- Alerting using EventBridge & SNS
- Open Source CSPM Tool

Module 11 Application Security

- Secure Development Lifecycle
- Architecture's Role in Secure Cloud Applications
- Identity & Access Management and Application Security
- Dev Ops & DevSecOps
- Microservices

Module 12 Incident Response and Cloud Forensics

- Incident Response Lifecycle
- Developing a cloud-specific incident response plan
- Investigating security incidents in the cloud
- Digital forensics challenges and best practices in cloud environments

SCENARIO DISCUSSION: Creating an Incident Response Runbook

Module 13 Cloud Security Assurance and Assessment

- Cloud security assessment methodologies
- Security controls testing and validation in the cloud
- Cloud security certifications and their significance
- CCM and CAIQ
- CCM Domains & Controls

- Architecture Relevance
- Mapping standards and frameworks

SCENARIO DISCUSSION: Creating an assessment report on Cloud based on CCM & CAIQ

Module 14 Cost Management and Security

- Understanding cost implications of security decisions
- Budgeting for cloud and cloud security initiatives
- Cost optimization without compromising security
- Cost-benefit analysis, and return on investment for Cloud services

Module 15 Security Trust Assurance and Risk (STAR) Program

- CSA STAR Program
- Security & Privacy Implications of STAR
- STAR Program Components
- STAR Levels

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Testimonials

Suraj Abhiany

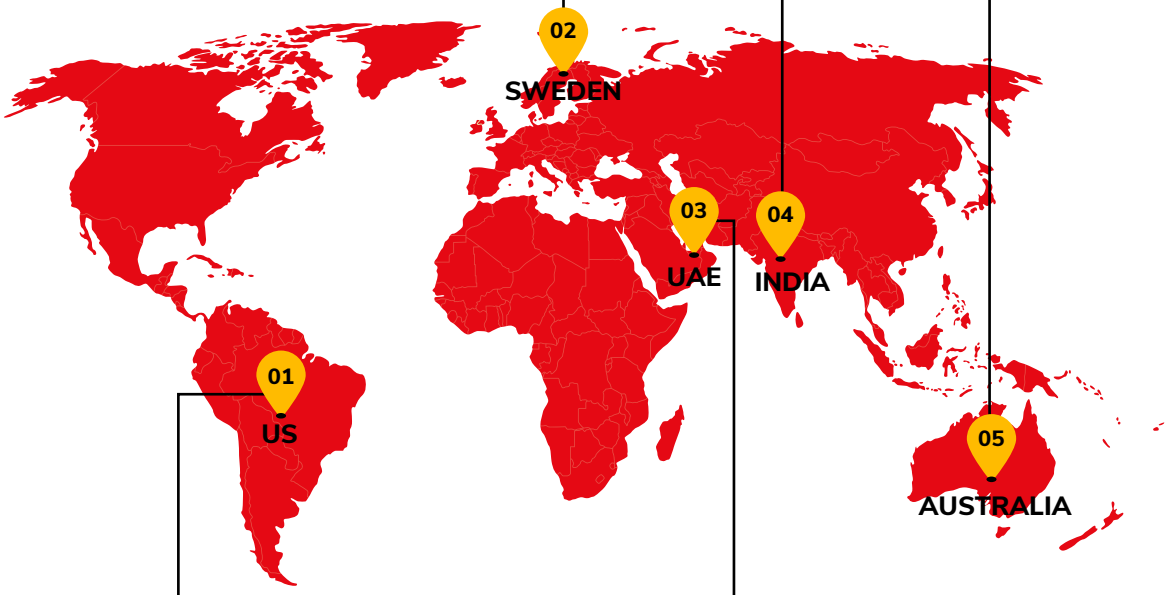
I appreciated the training provided by InfosecTrain for the Advanced Cloud Security Governance Course. The trainer was very knowledgeable and offered excellent guidance on all my queries. Many thanks for the valuable support!

Sonal Shukla

The entire Advanced Cloud Security Governance course was very informative and detail-oriented, with all concepts explained through practical examples. The training at InfosecTrain was excellent, and the trainers were knowledgeable, making the learning experience great.

Babitha Nair

The Advanced Cloud Security Governance Course by InfosecTrain was excellent. The trainer explained concepts clearly, even in recordings. Despite odd hours, I gained valuable insights. Thanks to the InfosecTrain Team for their efforts!



Shantel Flowers

The Advanced Cloud Security Governance course was outstanding. InfosecTrain's skilled trainers made the experience highly educational and beneficial.

Srinivas Acharjya KB

The training session for the Advanced Cloud Security Governance course provided by InfosecTrain was very good. Thank you very much for the valuable instruction and guidance.

INFOSECTRAIN
Educate. Excel. Empower.

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