

Certificate of Cloud Security Knowledge (CCSK) - Plus H8P76S

This course slices through the hyperbole and provides students with the practical knowledge to understand the real cloud security issues and solutions. The course provides a comprehensive review of cloud security fundamentals, including a detailed description of cloud computing. It covers all major domains in the latest guidance document from the Cloud Security Alliance, as well as the recommendations from the European Network and Information Security Agency

(ENISA). Throughout the training, students assess, build, and secure a cloud infrastructure through hands-on labs using Amazon Cloud.

This course prepares students for the Cloud Security Alliance CCSK certification exam. Audience Course objectives

• This class is for security professionals, but is also useful for anyone looking to expand their knowledge of cloud security.

Prerequisites

- We recommend attendees have at least a basic understanding of security fundamentals, including firewalls, secure development, encryption, and identity management.
- For security foundations training, refer to HL945S: Information Security Essentials

The objective of this course is to provide students with a base of knowledge of cloud computing security theory and practice, and to assist students in taking the CCSK exam.

Certifications and related examinations

The course gives students a comprehensive review of cloud security fundamentals and prepares them for the Cloud Security Alliance CCSK certification exam. The course includes an exam voucher from the Cloud Security Alliance for the CCSK certification exam.

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Delivery mode	ILT, VILT
Course length	3 Days
HPE course number	H8P76S

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Detailed course outline

Module 1: Introduction and Cloud Architectures Module 2: Infrastructure Security for Cloud	 Define cloud computing and its business benefits List the attributes that define cloud computing Identify pros and cons of cloud computing choices Discuss the different components of the cloud computing stack Differentiate service models and deployment models Discuss the security advantages and disadvantages of working with virtual infrastructure Discuss how to secure the cloud management plane 	 Describe individual service models and how they operate Describe individual deployment models and how they operate Discuss shared responsibility for security across models Identify cloud impact on related technologies that rely on cloud, or are commonly seen in cloud deployments Discuss the security advantages and disadvantages of working with virtual infrastructure Describe how to secure virtual networking
	Understand the components of cloud infrastructureAssess the security implications of virtual networks and workloads	 Describe how to secure virtual workloads during creation, use, movement, and destruction
Module 3: Managing Cloud Security and Risks	 List the key elements of information security governance related to cloud operations Review the implications of cloud on governance, with a focus on 	 Discuss contractual elements that support compliance and verification Identify jurisdiction and regulation requirements
	 Identify strategies to manage provider governance 	 Describe legal ramifications and procedures for legal accountability
	 Describe the steps in the risk management lifecycle specifically for moving to the cloud Differentiate risk treatment and implementation responsibility across service models 	 Describe types of audit and how to plan for them List required artifacts for auditing Describe how to handle the results of an audit
	 Identify the tools of governance Manage compliance and audits for cloud deployments. Discuss tools from the Cloud Security Alliance to help assess and manage risk Identify legal responsibilities based on business compliance, regulations, and geography 	 Discuss SLAs and setting expectations around what the customer does versus what the provider does (the most important aspect of incident response for cloud-based resources) Use functions, actors, and locations to identify cloud security issues, and specific controls to address security and governance Review the data security lifecycle in the cloud
Module 4: Data Security for Cloud	 Understand business continuity and disaster recovery in the cloud Define security issues for data in the cloud Assess the role and effectiveness of access controls 	Describe data security lifecycle for cloud useDiscuss data encryption and key managementDescribe forms of data loss prevention
Module 5: Securing Cloud Applications and Users	 Discover how application security differs in cloud computing Review secure software development basics and how they change in the cloud Leverage cloud capabilities for more secure cloud applications Describe the importance of standard interfaces and the potential costs of vendor lock-in Define the application architecture, design, and operations lifecycle Discuss the impact of cloud operations on SDLC and identify threat modeling requirements Differentiate static and dynamic testing methods and give examples of each Examine application security tools and vulnerability management processes 	 Define identity, entitlement, and access management terms Differentiate between identity and access management List best practices in provisioning identity and entitlement Describe how to build an entitlement matrix Differentiate between authentication, authorization, and access control Describe architectural models for provisioning and how to integrate them Describe the operation of federated identity management List key identity management standards and how they facilitate interoperation

Module 6: Cloud Security Operations	 Identify challenges in incident response when working with a cloud provider at various service levels Understand why cloud incidents need to be handled differently Explain the incident response lifecycle Define SECaaS 	 List advantages and concerns for SECaaS Describe various forms of security offered as services Identify cloud impact on related technologies that rely on cloud or are commonly seen in cloud deployments
Labs	Core account security	Encryption and storage security Application socurity and foderation
	 IAM and monitoring in-depth 	Application security and rederation
	 Network and instance security 	 Risk and provider assessment lab

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