



HP 教育訓練中心課程簡介

Cloud Computing Security Knowledge - CCSK Foundation (V3.1) (H8P75S)

市面上充斥著許多有關雲端安全性的誇大和混淆資訊。這為期 2 天的課程將破解這些誇張的資訊，並為學員提供他們需要瞭解有關真正的雲端安全問題和解決方案的實用知識。本訓練課程將帶領學員全面回顧雲端安全基礎知識，並讓學員為雲端安全聯盟 (Cloud Security Alliance) CCSK 認證考試作好準備。

課程說明

本課程一開始將會詳細描述雲端運算，內容將涵蓋雲端安全聯盟最新指導文件中的所有主要領域，以及歐洲網路與資訊安全機構 (European Network and Information Security Agency, ENISA) 的建議。

另外，為期 3 天的 H8P76S CCSK Plus 課程則額外增加了一天的實際操作實驗內容。每場課程均包含雲端安全聯盟 CCSK 認證考試的考試優惠券。

適合對象

本課程是為安全專業人員量身打造，但也非常適合任何希望擴展其雲端安全知識的人員。

先修課程

我們建議參加者應對安全性基礎知識 (如防火牆、安全開發、加密和身分管理) 至少具有基本的瞭解。如需安全性基礎訓練，請參閱 HP Information Security Common Body of Knowledge 課程，網址為：hp.com/learn/security。

為何選擇 HP 教育訓練中心？

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Course title:	Cloud Computing Security Knowledge - CCSK Foundation (V3.1)
HP product number:	H8P75S
Category/Subcategory:	Security
Course length:	2 days
Level:	Basic to intermediate
To order:	To review course schedules and to register for a course, visit http://www.hp.com.tw/education

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課程大綱

Module 1 簡介和雲端架構

目標

- 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.
- Describe individual service models and how they operate.
- Describe individual deployment models and how they operate.

Module 2 調節管理和資訊風險管理

目標

- List the key elements of information security governance related to cloud operations
- Identify strategies to manage provider governance
- Describe the steps in risk management lifecycle specifically for moving to the cloud
- List alternatives for risk treatment used by CSA
- Discuss levels of maturity in risk management
- Differentiate risk treatment implementation responsibility across service models
- Identify types of assets and how to evaluate their value to the organization
- Describe how incidents change in cloud
- Identify challenges in incident response when working with a cloud provider at various service levels
- List the steps in responding to a security incident

Module 3 在雲端的合規性和審核

目標

- Identify types legal responsibilities based on business compliance, regulations, and geography
- Discuss responsibility and accountability for assessing and mitigating information security risks
- Discuss contractual elements that support compliance and verification
- Describe types of audit and how to plan for them
- List required artifacts for auditing
- Describe how to handle the results of an audit

Module 4 實體和系統管理控制

目標

- Recognize sample security controls for data center perimeter
- Describe how cloud provider employment policies affect information security

Module 5 基礎設施技術

目標

- Identify architectural layers in a cloud environment.
- Provide a high level description of the operation of hypervisors in creating, updating, and destroying virtual machines.
- Discuss operation of the cloud management plane.
- List elements of virtual networking.
- Give a general description of the operation of shared storage.
- List additional infrastructure elements required in the operation of a cloud architecture.
- Differentiate the infrastructure delivery for different service models.

Module 6 保護雲端基礎架構

目標

- Discuss the security advantages and disadvantages of working with virtual infrastructure
- Identify security concerns in a cloud environment
- List elements to secure the host and hypervisor levels
- Discuss how to secure the cloud management plane
- Describe how to secure virtual networking
- Describe how to secure virtual machines during creation, use, movement, and destruction
- List ways to secure API interfaces
- Learn the security basics for the difference service models
- Assess the security implications of different deployment models

Module 7 雲端運算的資料安全性

目標

- Describe different cloud storage models
- Define security issues for data in the cloud
- Describe data security lifecycle
- Use functions, actors, and locations to identify cloud security issues, and specific controls to address security and governance
- Discuss data encryption and key management
- Describe forms of data loss prevention

Module 8 雲端識別和存取管理

目標

- 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 9 開發和保護雲端應用程式

目標

- Describe the importance of standard interfaces and the potential costs of vendor lock-in
- Differentiate between portability and interoperability
- Describe how to minimize disruption of service during vendor change
- Define Application Architecture, Design, and Operations lifecycle
- Discuss 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
- Discuss the role of compliance in cloud applications
- Describe methods of ongoing application monitoring

Module 10 安全即服務

目標

- Define SECaaS
- List advantages and concerns for SECaaS
- Describe various forms of security offered as services

Module 11 供應商關係

目標

- List elements of risk management planning and implementation to look for in a cloud service provider
- Identify strategies to manage provider governance
- Advocate for contractual clarity in all phases of risk management and information security
- Describe elements of supplier assessment for cloud providers

更多訊息

歡迎上網查詢 HP 教育訓練中心所有課程相關訊息及活動，

請造訪：<http://www.hp.com.tw/education>

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H8P75sa.00 Created Jan 2015

