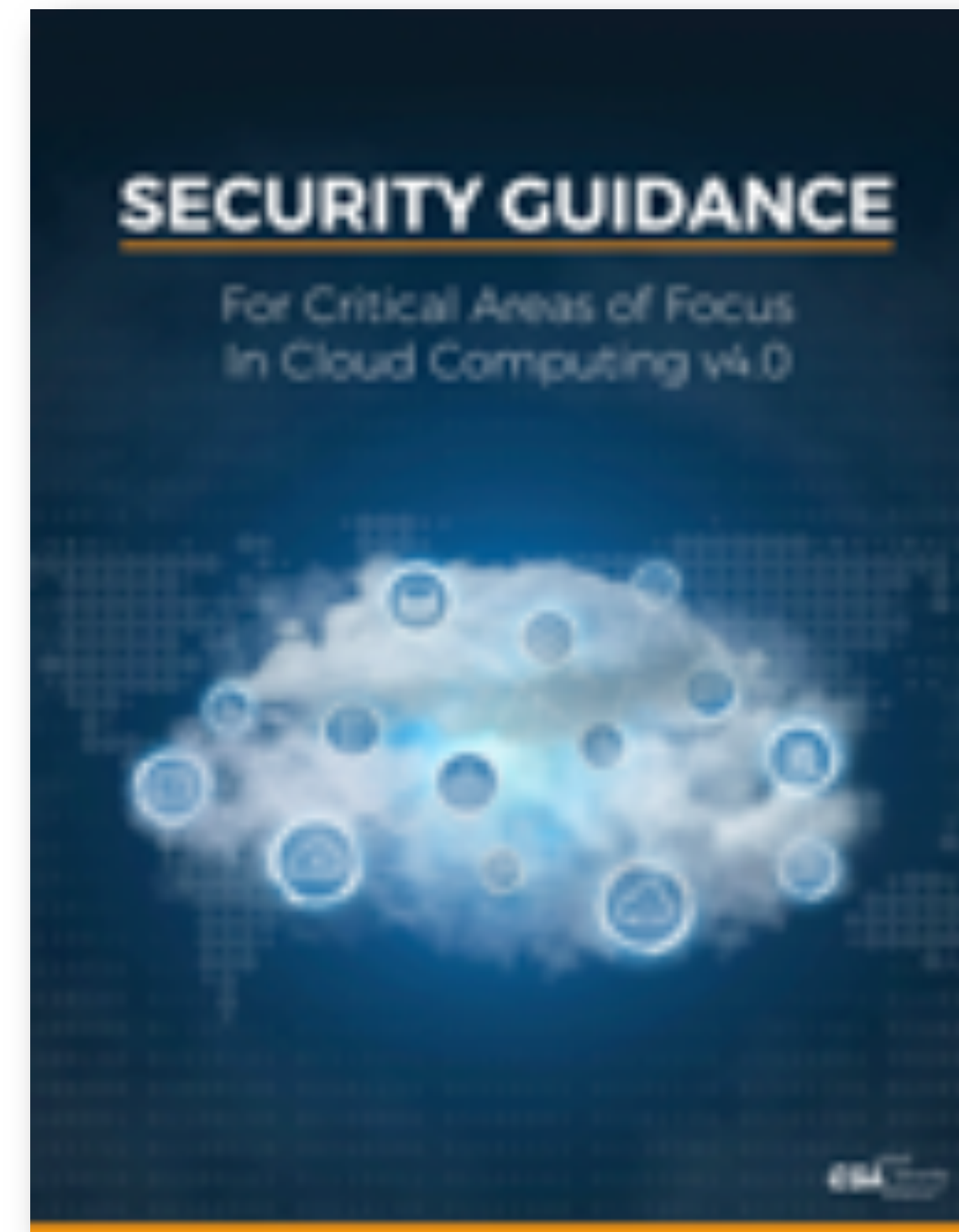# CCSK- Securing the Cloud

Jane CHOW, Associate Research Analyst, CSA

BUILDING BLOCKS OF CCSK

Building Blocks of CCSK

What Is CSA's CCM?

- First ever baseline control framework specifically designed for Cloud supply chain risk management
- Delineates control ownership (Provider, Customer)
- An anchor for security & compliance posture measurement
- Provides a framework of 16 control domains
- Controls map to global regulations & security standards
- Industry Driven Effort: 120+ Peer Review Participants
- Participants: AICPA, Microsoft, McKesson, ISACA, Oracle
- Backbone of Open Certification Framework & STAR

CCM™
Cloud Controls Matrix

CCM V3.0.1 – 16 Control Domains

AIS	Application & Interface Security	HRS	Human Resources Security
AAC	Audit Assurance & Compliance	IAM	Identity & Access Management
BCR	Business Continuity Mgmt & Op Resilience	IVS	Infrastructure & Virtualization
CCC	Change Control & Configuration Management	IPY	Interoperability & Portability
DSI	Data Security & Information Lifecycle Mgmt	MOS	Mobile Security
DSC	Datacenter Security	SEF	Sec. Incident Mgmt, E-Disc & Cloud Forensics
EKM	Encryption & Key Management	STA	Supply Chain Mgmt, Transparency & Accountability
GRM	Governance & Risk Management	TVM	Threat & Vulnerability Management

133 CONTROLS
Cloud Controls Matrix v3.0.1

What Is CSA's Security Guidance?

SECURITY GUIDANCE
For Critical Areas of Focus
In Cloud Computing v4.0

- Fundamental cloud security research that started CSA

- Foundation for Certificate of Cloud Security Knowledge (CCSK)

- 4th version, released July 2017

- Architecture of the Cloud

- Governing in the Cloud
    - Governance and Enterprise Risk Management
    - Legal Issues, Contracts and Electronic Discovery
    - Compliance & Audit Management
    - Information Governance

- Operating in the Cloud
    - Management Plane & Business Continuity
    - Infrastructure Security
    - Virtualization & Containers
    - Incident Response
    - Application Security
    - Data Security & Encryption
    - Identity Management
    - Security as a Service
    - Related Technologies

CSA CERTIFIED CLOUD SECURITY KNOWLEDGE (CCSK)

Certification Magazine's Salary Survey 2017

An outgrowth of the magazine's popular annual Salary Survey, the Salary Survey 75 provides an IT certification heat check, of sorts. The list comprises the 75 highest-salaried certifications held by survey respondents, or at least held by a sufficient number of survey respondents to calculate a statistically relevant average.

The top credential this year is CSA's Certificate of Cloud Security Knowledge (CCSK), followed by the IAPP Certified Information Privacy Professional (CIPP). The average annual salary for CCSK holders in the United States is a potent $149,760, while the U.S. CIPP holders have an average annual salary of $144,580.

Source: http://www.gocertify.com/it-certification-watch-newsletter/certification-watch-vol-20-no-2

Source - https://prn.to/2TF6E2r

What the Industry Says (1/2)

"This is the mother of all cloud computing security certifications. The Certificate of Cloud Security Knowledge certification is vendor-neutral, and certifies competency in key cloud security areas."
~ CIO.com, Top Ten Cloud Computing Certifications

"Having dealt with security since the creation of our Group 60 years ago, at Kudelski Security we are thrilled to leverage CSA's Cloud Security Knowledge certification to bring our Cyber Security Division's engineering experts to a common level of understanding of best practices and benefits of cloud computing. When training clients in corporate and public segments on information security standards, we highlight the importance of CSA's CCSK certification for IT professionals who need to ensure adoption of secure cloud environment in their organizations."
~ Joel Conus, VP Cyber Security Operations, Kudelski Security

"The CSA, in providing a set of goals through the CCSK, is challenging security practitioners to become the cloud thought-leaders we need today and tomorrow to ensure safe and secure cloud environments. In developing the CCSK, CSA is 'setting the bar' for security professionals and providing business executives a means to gauge the opinions and rhetoric associated with security in the cloud."
~ Jerry Archer, CSO, Sallie Mae

What the Industry Says (2/2)

"With CCSK certification, professionals who have Cloud Computing responsibilities can demonstrate thorough Cloud security knowledge based on the CSA's catalogue of security best practices."

~ Patrick Harding, CTO, Ping Identity

"As enterprises move toward cloud computing, they are desperately seeking guidance and education in this new domain. CSA is bridging this gap and the CCSK provides an important first step in establishing baseline knowledge for individuals tasked with building and managing applications to the cloud."

~ Michael Sutton, CISO, Zscaler

INTRODUCTION

Since CSA first released the CCSK in 2010, thousands of IT and security professionals have taken the opportunity to upgrade their skillsets and enhance their careers by obtaining the CCSK.

The CCSK Helps You
- Validate your competence
- Demonstrate your technical abilities
- Differentiate yourself from other candidates for desirable employment
- Gain access to valuable career resources

# Helps Employers, CSPs & Consulting

The CCSK Helps Employers

- Protect against threats with qualified professionals
- Increase your confidence that candidates are qualified
- Ensure practitioners use a universal language
- Increase organizations' credibility

The CCSK Helps CSPs & Consulting Organizations

- Increase revenues by winning more business using expertise demonstrated with certified staff
- Increase organizations' credibility

HOW HAS THE CCSK HELPED PEOPLE?

How has your career progressed after earning your CCSK? (select all that apply)
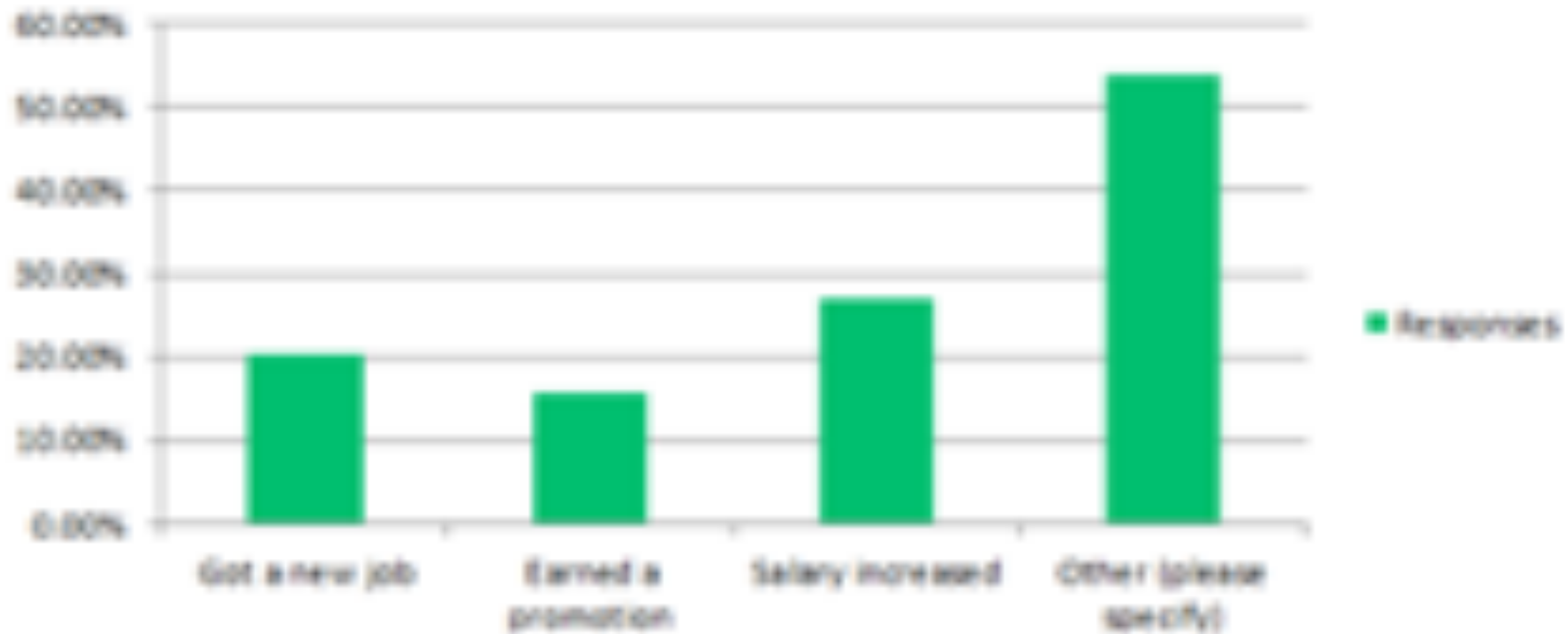
How the CCSK helped progressed their career

Recognition Award

Knowledge leadership acknowledged by peers and customers

Increased credibility for cloud security consulting mandates

Comfortable in speaking to new customers on cloud security

I discovered the creative ways that would enable me to say 'YES' while not compromising security

Able to make effective security control decisions for cloud based infrastructure

Got assigned to Cloud security projects

Increased visibility as a Cloud Security and Compliance SME

Better visibility in job searches

Noteworthy Testimonials

Positive Feedback

Under "Other" in career progression.

"Able to make effective security control decisions for cloud based infrastructure"

I support cloud infrastructures and implement the security for cloud in my own business. I also consult. My clients depend upon me to understand cloud security. I have three other cloud security certifications; the CCSK is the only one that helps me to do my job on a day-to-day basis.

-Dean Bushmiller, holds CCSP, CISSP, CompTIA Cloud+ and EXIN- Cloud

Types of CCSK training

Certificate of
Cloud Security Knowledge

CCSK Foundation

CCSK Plus

+ Lab
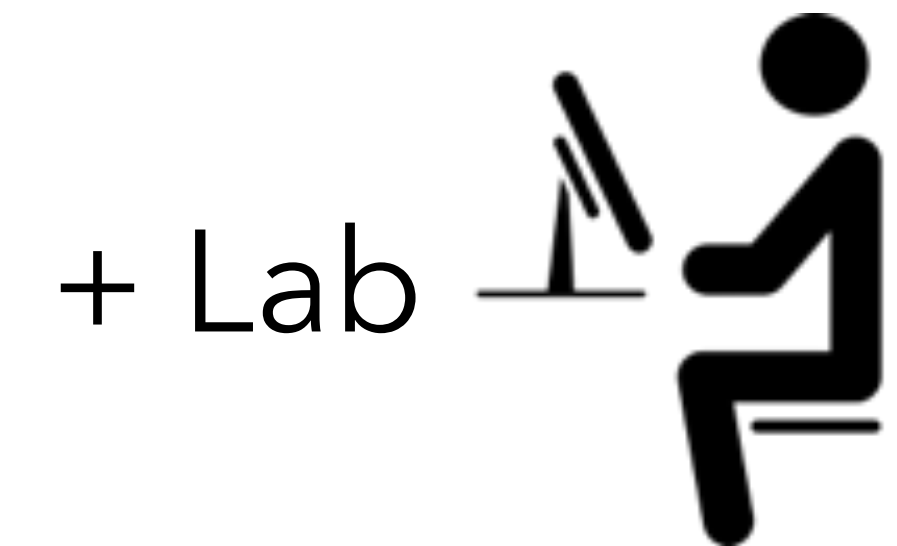
AREAS IN CCSK

Preparing for CCSK Exam

- Each token allows 2 tries. Purchase token: https://ccsk.cloudsecurityalliance.org/en

- 60 MCQ to be completed in 90 minutes

- Open book setting

- Passing grade: 80%

CCSK CERTIFICATES
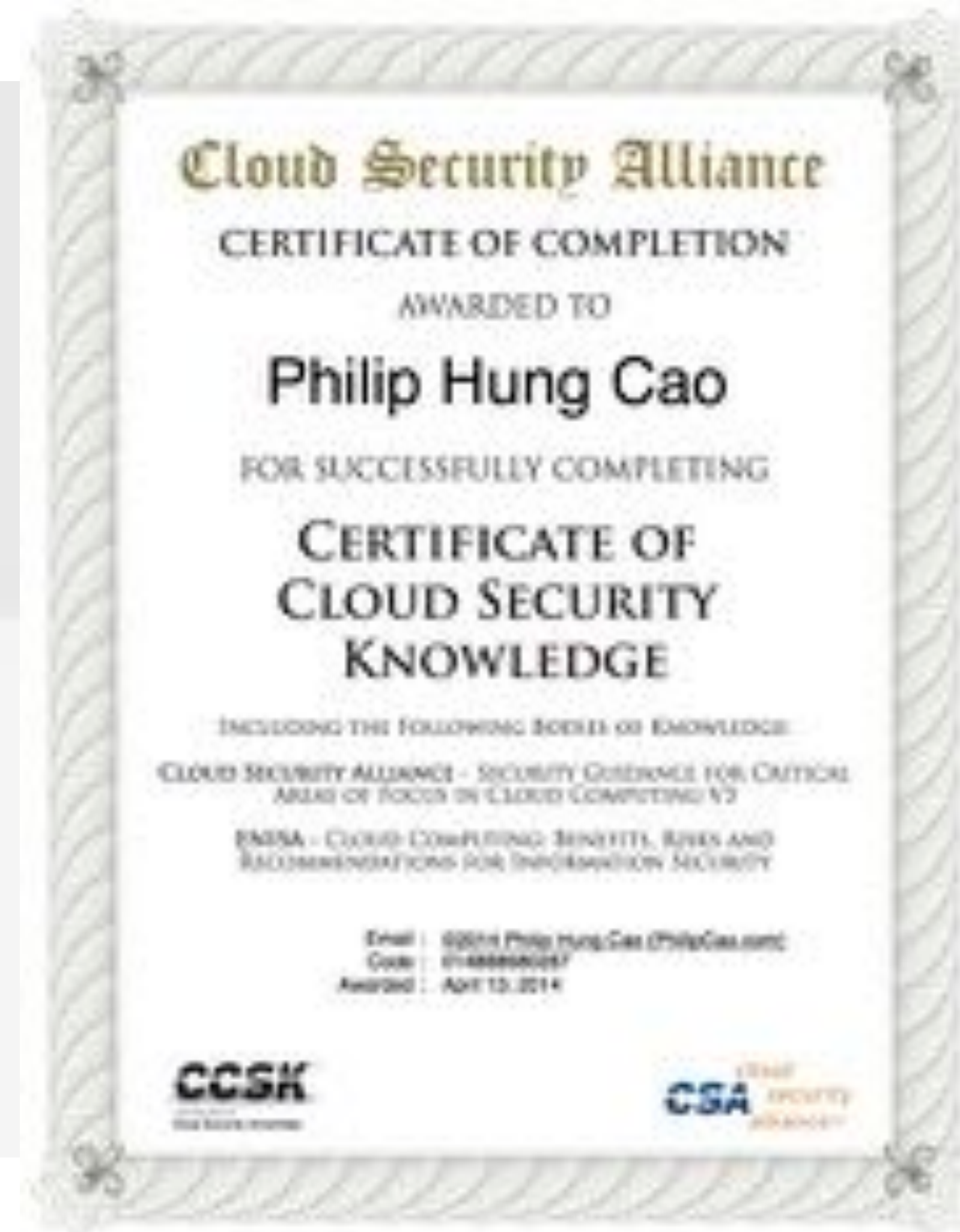
BECOMING A QUALIFIED CCSK INSTRUCTOR

Requirements to become CCSK instructor

Individual must hold a CCSK certificate

Individual must hold a current (v4) CCSK PLUS training certificate

Individual must complete a current (currently v4) CCSK Train the Trainer (TTT) course

Individual must pass the TTT exam

BECOMING AUTHORIZED
CCSK TRAINING PARTNER

Requirements for an Authorized CCSK Partner

Company must sign the CSA CCSK Training partner agreement

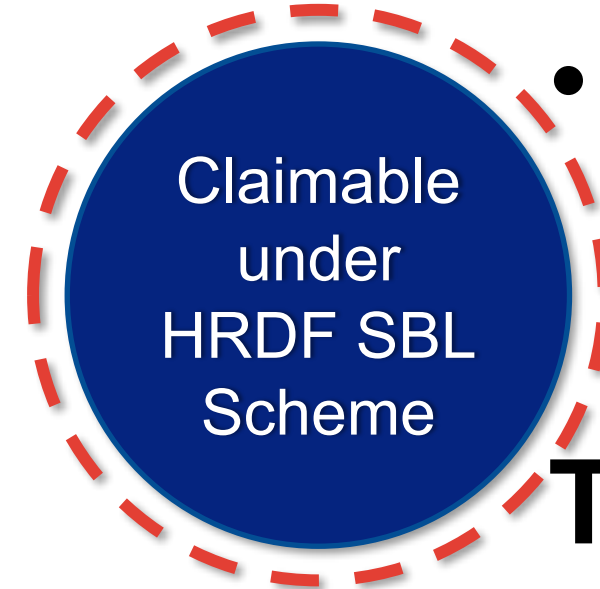Company must employ or hire at least one certified CSA CCSK instructor

Authorized CCSK Training Partners

Singapore
- HPE
- NTUC Learning Hub

Malaysia
- HPE
- Vertical Distinct
- LGMS

Vietnam
- Robusta Technology & Training

Indonesia
- In progress

Claimable under HRDF SBL Scheme

India
- CAVIS (Bangalore)
- Koenig Solutions (New Delhi)
- RPS Consulting (Bangalore)
- SeCloud Technologies (New Delhi/Bangalore)

Thailand
- HPE

Hong Kong
- Kornerstone

CSA CERTIFIED CLOUD SECURITY PROFESSIONAL (CCSP)

What is CCSP?

The CCSP is a global credential that represents the highest standard for cloud security expertise.

It was co-created by (ISC)² & **CSA** — leading stewards for information security & cloud computing security.

When you earn this cloud security certification, you prove you have deep knowledge & hands-on experience with cloud security architecture, design, operations & service orchestration.

Pre-requisites
*   A minimum of **5 years** cumulative, paid [work experience](#) in information technology

*   Of which **3 years** must be in information security & **one year** in one or more of the six domains of the CCSP Common Body of Knowledge (CBK)

Contact Us

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