Course Ou

Certified Cloud Security



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1. Course Objective

Get certified for the (ISC)² CCSP certification with the Certified Cloud Security Professional course and lab. The lab is cloud-based, device-enabled, and can easily be integrated with an LMS. The CCSP training course provides skills for all the CCSP exam topics and expertise in areas such as cloud concepts, architecture and design, cloud data security, cloud platform and infrastructure security, cloud application security, cloud security operations.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

3. Exercises

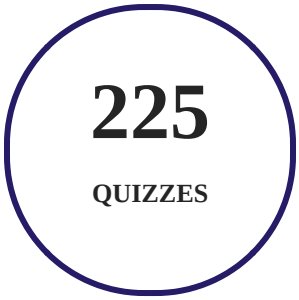
There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

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EXERCISES

4. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



5. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



7. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

8. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

9. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

10. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been

recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
  1. Best Postsecondary Learning Solution

- **2015**
  1. Best Education Solution
  2. Best Virtual Learning Solution
  3. Best Student Assessment Solution
  4. Best Postsecondary Learning Solution
  5. Best Career and Workforce Readiness Solution
  6. Best Instructional Solution in Other Curriculum Areas
  7. Best Corporate Learning/Workforce Development Solution

- **2016**
  1. Best Virtual Learning Solution
  2. Best Education Cloud-based Solution
  3. Best College and Career Readiness Solution
  4. Best Corporate / Workforce Learning Solution
  5. Best Postsecondary Learning Content Solution
  6. Best Postsecondary LMS or Learning Platform
  7. Best Learning Relationship Management Solution

- **2017**
  1. Best Overall Education Solution
  2. Best Student Assessment Solution
  3. Best Corporate/Workforce Learning Solution
  4. Best Higher Education LMS or Learning Platform

- **2018**
  1. Best Higher Education LMS or Learning Platform

2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**
  1. Best Virtual Learning Solution
  2. Best Content Authoring Development or Curation Solution
  3. Best Higher Education Learning Management Solution (LMS)

- **2020**
  1. Best College and Career Readiness Solution
  2. Best Cross-Curricular Solution
  3. Best Virtual Learning Solution

11. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Introduction

- Overview of the CCSP Exam
- Notes on This Course's Organization

Chapter 2: Architectural Concepts

- Business Requirements
- Cloud Evolution, Vernacular, and Definitions
- Cloud Computing Roles and Responsibilities
- Cloud Computing Definitions
- Foundational Concepts of Cloud Computing
- Summary
- Exam Essentials
- Written Labs

Chapter 3: Design Requirements

- Business Requirements Analysis
- Boundaries of Cloud Models
- Design Principles for Protecting Sensitive Data
- Summary
- Exam Essentials
- Written Labs

Chapter 4: Data Classification

- Data Inventory and Discovery
- Jurisdictional Requirements
- Data Rights Management
- Data Control
- Summary
- Exam Essentials
- Written Labs

Chapter 5: Cloud Data Security

- Cloud Data Life Cycle
- Cloud Storage Architectures
- Cloud Data Security Foundational Strategies
- Summary
- Exam Essentials
- Written Labs

Chapter 6: Security in the Cloud

- Shared Cloud Platform Risks and Responsibilities

- Cloud Computing Risks by Deployment and Service Model
- Virtualization
- Cloud Attack Surface
- Disaster Recovery (DR) and Business Continuity Management (BCM)
- Summary
- Exam Essentials
- Written Labs

Chapter 7: Responsibilities in the Cloud

- Foundations of Managed Services
- Business Requirements
- Shared Responsibilities by Service Type
- Shared Administration of OS, Middleware, or Applications
- Share Responsibilities: Data Access
- Lack of Physical Access
- Summary
- Exam Essentials
- Written Labs

Chapter 8: Cloud Application Security

- Training and Awareness
- Cloud-Secure Software Development Life Cycle (SDLC)
- ISO/IEC 27034-1 Standards for Secure Application Development
- Identity and Access Management (IAM)
- Cloud Application Architecture
- Cloud Application Assurance and Validation
- Summary
- Exam Essentials
- Written Labs

Chapter 9: Operations Elements

- Physical/Logical Operations
- Security Training and Awareness
- Basic Operational Application Security
- Summary
- Exam Essentials
- Written Labs

Chapter 10: Operations Management

- Monitoring, Capacity, and Maintenance
- Change and Configuration Management (CM)
- Business Continuity and Disaster Recovery (BC/DR)
- Summary
- Exam Essentials
- Written Labs

Chapter 11: Legal and Compliance Part 1

- Legal Requirements and Unique Risks in the Cloud Environment
- Potential Personal and Data Privacy Issues in the Cloud Environment
- Audit Processes, Methodologies, and Cloud Adaptations
- Summary
- Exam Essentials
- Written Labs

Chapter 12: Legal and Compliance Part 2

- The Impact of Diverse Geographical Locations and Legal Jurisdictions

- Business Requirements
- Cloud Contract Design and Management for Outsourcing
- Identifying Appropriate Supply Chain and Vendor Management Processes
- Summary
- Exam Essentials
- Written Labs

12. Practice Test

Here's what you get

125	2	123
PRE-ASSESSMENTS QUESTIONS	FULL LENGTH TESTS	POST-ASSESSMENTS QUESTIONS

Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

13. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

Lab Tasks

Architectural Concepts

- Capturing Network Traffic
- Installing Ubuntu Using Hyper-V Manager
- Using a Symmetric Algorithm
- Using an Asymmetric Algorithm

Design Requirements

- Performing Active Scanning using Nmap
- Creating a DMZ Zone

Data Classification

- Displaying Metadata Information
- Enabling Access Control List
- Standard Access Control List
- Extended Access Control List

Cloud Data Security

- Building IPSec VPN using ubuntu
- Generating a Symmetric key
- Generating an Asymmetric key
- Observe an MD5-Generated Hash Value
- Observe an SHA-Generated Hash Value

Security in the Cloud

- Performing DoS Attacks with SYN Flood
- Performing an MITM using websploit
- Using Social Engineering to Plan an Attack

Responsibilities in the Cloud

- Setup Honeypot on Kali Linux
- Enabling an Intrustion Detection Policy
- Removing Unnecessary Services

Cloud Application Security

- Authorization of an User
- Examining File Permissions
- Cross-site request forgery with low complexity
- Reviewing the Top 10 OWASP Attacks
- Attacking a website using XSS injection
- Conducting IP Spoofing

Operations Management

- Verify RAM Usage
- Checking Disk Capacity
- Using MBSA

Legal and Compliance Part 1

- Complete Chain of Custody

Here's what you get

31	21	41
LIVE LABS	VIDEO TUTORIALS	MINUTES

14. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

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