uCertify

Course Outline

(ISC)2 Certified Cloud Security Professional (CCSP)

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1. Course Objective

The (ISC)2 Certified Cloud Security Professional (CCSP) course covers all 6 CCSP domains with in-depth lectures and eBooks. The course utilizes interactive learning modules, videos, practice tests and performance-tracking tools to fully prepare you for the challenging CCSP exam. You'll gain mastery over cloud concepts, data security, encryption, infrastructure and application security, operations, incident response, governance, risk, compliance and more through hundreds of hands-on labs and activities in our cloud sandbox environment.

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.

4. Quiz

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

- CCSP Certification
- Taking the CCSP Exam
- Computer-Based Testing Environment

- Exam Retake Policy
- Work Experience Requirement
- Recertification Requirements
- What Does This Course Cover?
- CCSP Exam Objectives
- CCSP Certification Exam Objective Map

Chapter 2: Architectural Concepts

- Cloud Characteristics
- Business Requirements
- Cloud Computing Service Categories
- Cloud Deployment Models
- Multitenancy
- Cloud Computing Roles and Responsibilities
- Cloud Computing Reference Architecture
- Virtualization
- Cloud Shared Considerations
- Emerging Technologies

- Summary
- Exam Essentials

Chapter 3: Data Classification

- Data Inventory and Discovery
- Information Rights Management
- Data Control
- Summary
- Exam Essentials

Chapter 4: Cloud Data Security

- Cloud Data Lifecycle
- Cloud Storage Architectures
- Threats to Cloud Storage
- Designing and Applying Security Strategies for Storage
- Summary
- Exam Essentials

Chapter 5: Security in the Cloud

- Shared Cloud Platform Risks and Responsibilities
- Cloud Computing Risks by Deployment Model
- Cloud Computing Risks by Service Model
- Virtualization
- Disaster Recovery (DR) and Business Continuity (BC)
- Cloud Design Patterns
- Summary
- Exam Essentials

Chapter 6: Cloud Platform, Infrastructure, and Operational Security

- Foundations of Managed Services
- Shared Responsibilities by Service Type
- Securing Communications and Infrastructure
- Securing Hardware and Compute
- Securing Software
- Managing Virtual Systems
- Assessing Vulnerabilities
- Securing the Management Plane

- Auditing Your Environment and Provider
- Summary
- Exam Essentials

Chapter 7: Cloud Application Security

- Developing Software for the Cloud
- Cloud Application Architecture
- Cloud-Secure Software Development Lifecycle (SDLC)
- Cloud Application Assurance and Validation
- Identity and Access Management
- Summary
- Exam Essentials

Chapter 8: Operations Elements

- Designing a Secure Data Center
- Managing Security Operations
- Summary
- Exam Essentials

Chapter 9: Operations Management

- Monitoring, Capacity, and Maintenance
- Change and Configuration Management
- Problem and Incident Management
- IT Service Management and Continual Service Improvement
- Business Continuity and Disaster Recovery
- Summary
- Exam Essentials

Chapter 10: Legal and Compliance Issues

- Legal Requirements and Unique Risks in the Cloud Environment
- Analyzing a Law
- Legal Liability
- Torts and Negligence
- U.S. Privacy and Security Laws
- International Laws
- Laws, Regulations, and Standards
- Information Security Management Systems

- Privacy in the Cloud
- Cloud Forensics
- Audit Processes, Methodologies, and Cloud Adaptations
- Summary
- Exam Essentials

Chapter 11: Cloud Vendor Management

- The Impact of Diverse Geographical Locations and Legal Jurisdictions
- Security Policy Framework
- Enterprise Risk Management
- Risk Treatment and Response
- Risk Analysis
- Cloud Contract Design
- Government Cloud Standards
- Manage Communication with Relevant Parties
- Summary
- Exam Essentials

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

46	14:08
VIDEOS	HOURS

12. Practice Test

uCertify provides full length practice tests. These tests closely follow the exam objectives and are designed to simulate real exam conditions. Each course has a number of test sets consisting of hundreds of items to ensure that learners are prepared for the certification exam.

Here's what you get

150	2	150
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

- Creating a Virtual Machine

Data Classification

- Displaying Metadata Information
- Capturing Network Traffic

Cloud Data Security

- Taking an Incremental Backup
- Taking a Full Backup
- Creating an Amazon S3 Glacier Vault
- Observing an MD5-Generated Hash Value
- Observing an SHA256-Generated Hash Value
- Creating a CloudWatch Dashboard and Adding a Metric to it

Security in the Cloud

- Performing a MITM Attack
- Using Social Engineering Techniques to Plan an Attack

Cloud Platform, Infrastructure, and Operational Security

- Configuring a Firewall for Inbound Rules
- Setting up a Honeypot on Kali Linux
- Enabling an Access Control List
- Creating a VPC
- Creating a Network ACL
- Configuring Outbound Rules for a Firewall
- Creating an Elastic Load Balancer
- Creating a NAT Gateway

Cloud Application Security

- Configuring a Proxy Server
- Conducting IP Spoofing
- Conducting Cross-site Request Forgery (CSRF or XSRF) Attacks
- Attacking a Website Using Cross-Site Scripting (XSS) Injection

Legal and Compliance Issues

- Completing the Chain of Custody

Cloud Vendor Management

- Simulating the DDoS Attack

Here's what you get

25	25	57
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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