uCertify

Course Outline

Certified Cloud Security Professional (CCSP)

29 Apr 2024

1. Course Objective
2. Pre-Assessment
3. Exercises, Quizzes, Flashcards & Glossary

   Number of Questions
4. Expert Instructor-Led Training
5. ADA Compliant & JAWS Compatible Platform
6. State of the Art Educator Tools
7. Award Winning Learning Platform (LMS)
8. Chapter & Lessons

   Syllabus

   Chapter 1: Introduction

   Chapter 2: Architectural Concepts

   Chapter 3: Design Requirements

   Chapter 4: Data Classification

   Chapter 5: Cloud Data Security

   Chapter 6: Security in the Cloud

   Chapter 7: Responsibilities in the Cloud

   Chapter 8: Cloud Application Security

   Chapter 9: Operations Elements

   Chapter 10: Operations Management

   Chapter 11: Legal and Compliance Part 1

   Chapter 12: Legal and Compliance Part 2

   Videos and How To
9. Practice Test

   Here's what you get

   Features
10. Live labs

    Lab Tasks

Here's what you get

11. Post-Assessment

1. Course Objective

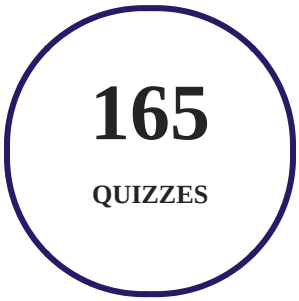
Create new career opportunities by being CCSP certified with the (ISC)² Certified Cloud Security Professional course and lab. CCSP study guide covers the CCSP exam objectives and offers hands-on learning experience in topics such as Data Classification, Cloud Data Security, Cloud Application Security, Operations Management, and many more.

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.

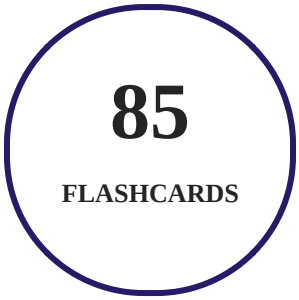
3. Quizzes

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.



4. 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.



5. 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.

6. 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.

7. 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.

8. 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.

9. 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

10. 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

- Cloud Characteristics
- Business Requirements
- Cloud Evolution, Vernacular, and Models
- Cloud Computing Roles and Responsibilities

- Cloud Computing Definitions
- Foundational Concepts of Cloud Computing
- Related and Emerging Technologies
- Summary
- Exam Essentials
- Written Labs

Chapter 3: Design Requirements

- Business Requirements Analysis
- Security Considerations for Different Cloud Categories
- Design Principles for Protecting Sensitive Data
- Summary
- Exam Essentials
- Written Labs

Chapter 4: Data Classification

- Data Inventory and Discovery
- Jurisdictional Requirements

- Information Rights Management (IRM)
- Data Control
- Summary
- Exam Essentials
- Written Labs

Chapter 5: Cloud Data Security

- Cloud Data Lifecycle
- 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 Model
- Cloud Computing Risks by Service Model
- Virtualization

- Disaster Recovery (DR) and Business Continuity (BC)
- 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
- Shared Responsibilities: Data Access
- Lack of Physical Access
- Summary
- Exam Essentials
- Written Labs

Chapter 8: Cloud Application Security

- Training and Awareness

- Cloud-Secure Software Development Lifecycle (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 Operations Center
- Summary
- Exam Essentials
- Written Labs

Chapter 10: Operations Management

- Monitoring, Capacity, and Maintenance
- Change and Configuration Management (CM)

- IT Service Management and Continual Service Improvement
- 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

11. Practice Test

Here's what you get

125	3	125
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.

12. 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
- Creating a Virtual Machine
- Using an Asymmetric Algorithm
- Installing Ubuntu Using Server Manager
- Using a Symmetric Algorithm

Design Requirements

- Using Windows Defender
- Creating a Demilitarized Zone
- Configuring a VPN

Data Classification

- Displaying Metadata Information
- Creating a Standard ACL
- Enabling an Access Control List

Cloud Data Security

- Building IPSec VPN
- Configuring RAID 5
- Generating a Symmetric Key
- Generating an Asymmetric Key
- Observing an MD5-Generated Hash Value
- Observing an SHA-Generated Hash Value

Security in the Cloud

- Performing a DoS Attack with SYN Flood
- Performing a MITM Attack
- Using Social Engineering Techniques to Plan an Attack
- Installing Web Application Proxy
- Performing a Credential-Based Brute-Force Attack
- Taking a Full Backup
- Taking an Incremental Backup

Responsibilities in the Cloud

- Setting Up a Honeypot on Kali Linux
- Configuring a Firewall for Inbound Rules
- Removing Unnecessary Services
- Using the Event Viewer

Cloud Application Security

- Authorizing a User
- Examining File Permissions
- Conducting Cross-Site Request Forgery with Low Complexity
- Attacking a Website Using Cross-Site Scripting (XSS) Injection

- Conducting IP Spoofing

Operations Management

- Verifying RAM Usage
- Checking Disk Capacity
- Using MBSA

Legal and Compliance Part 1

- Completing the Chain of Custody

Here's what you get

37

LIVE LABS

13. 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.