

uCertify

Course Outline

Managing Cloud Security



Lesson



Practice test

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1. Course Objective

Gain hands-on expertise in (ISC)² CCSP exam with CCSP - Managing Cloud Security course. The course provides complete coverage of CCSP exam and includes topics such as architectural concepts & design requirements, cloud data security, cloud platform & infrastructure security, cloud application, security, operations, legal & compliance. The CCSP credential provides professionals with deep-seated knowledge and competency derived from experience with cyber, information, software and cloud computing infrastructure security.

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, Quizzes, Flashcards & Glossary

Each lesson comes with Exercises, Flashcards & Quizzes. 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. Flashcards help master the key concepts while Glossary defines the key terms.

Number of Questions

800

Over 800 unique questions including pre-assessment, quizzes, exercises, and post assessment.

4. 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.

5. 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.

6. 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 assignments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

7. 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 3 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

8. 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

- Conventions

Chapter 2: Domain 1: Architectural Concepts and Design Requirements

- Introduction
- Cloud Computing Definitions
- Cloud Computing Roles
- Key Cloud Computing Characteristics
- Cloud Transition Scenario
- Building Blocks
- Cloud Computing Functions
- Cloud Service Categories
- Cloud Deployment Models
- Cloud Cross-Cutting Aspects

- Network Security and Perimeter
- Cryptography
- IAM and Access Control
- Data and Media Sanitization
- Virtualization Security
- Common Threats
- Security Considerations for Different Cloud Categories
- Open Web Application Security Project Top Ten Security Threats
- Cloud Secure Data Lifecycle
- Information and Data Governance Types
- Business Continuity and Disaster Recovery Planning (BCDR)
- Cost-Benefit Analysis
- Certification Against Criteria
- System and Subsystem Product Certification
- Summary

Chapter 3: Domain 2: Cloud Data Security

- Introduction
- The Cloud Data Lifecycle Phases
- Location and Access of Data
- Functions, Actors, and Controls of the Data
- Cloud Services, Products, and Solutions
- Data Storage
- Relevant Data Security Technologies
- Application of Security Strategy Technologies
- Emerging Technologies
- Data Discovery
- Data Classification
- Data Privacy Acts
- Typical Meanings for Common Privacy Terms
- Privacy Roles for Customers and Service Providers
- Responsibility Depending on the Type of Cloud Services
- Implementation of Data Discovery

- Classification of Discovered Sensitive Data
- Mapping and Definition of Controls
- Privacy Level Agreement
- PLA Versus Essential P&DP Requirements Activity
- Application of Defined Controls for PII
- Data Rights Management Objectives
- Data-Protection Policies
- Events
- Supporting Continuous Operations
- Chain of Custody and Nonrepudiation
- Summary

Chapter 4: Domain 3: Cloud Platform and Infrastructure Security

- Introduction
- Network and Communications in the Cloud
- The Compute Parameters of a Cloud Server
- Storage Issues in the Cloud
- Management of Cloud Computing Risks
- Countermeasure Strategies Across the Cloud
- Physical and Environmental Protections
- System and Communication Protections
- Virtualization Systems Controls
- Managing Identification, Authentication, and Authorization in the Cloud Infrastructure
- Risk Audit Mechanisms
- Understanding the Cloud Environment Related to Business Continuity and Disaster Recovery (BCDR)
- Understanding the Business Requirements Related to BCDR
- Understanding the BCDR Risks
- BCDR Strategies
- Creating the BCDR Plan
- Summary

Chapter 5: Domain 4: Cloud Application Security

- Introduction
- Determining Data Sensitivity and Importance
- Understanding the API Formats
- Common Pitfalls of Cloud Security Application Deployment
- Awareness of Encryption Dependencies
- Understanding the Software Development Lifecycle Process for a Cloud Environment
- Assessing Common Vulnerabilities
- Cloud-Specific Risks
- Threat Modeling
- Identity and Access Management
- Federated Identity Management
- Multifactor Authentication
- Supplemental Security Devices
- Cryptography
- Tokenization
- Data Masking
- Sandboxing
- Application Virtualization
- Cloud-Based Functional Data
- Cloud-Secure Development Lifecycle
- Application Security Testing
- Summary

Chapter 6: Domain 5: Operations

- Introduction
- Modern Data Centers and Cloud Service Offerings
- Factors That Affect Data Center Design
- Enterprise Operations
- Secure Configuration of Hardware: Specific Requirements
- Installation and Configuration of Virtualization Management Tools for the Host
- Securing the Network Configuration
- Identifying and Understanding Server Threats
- Using Standalone Hosts

- Using Clustered Hosts
- Accounting for Dynamic Operation
- Using Storage Clusters
- Using Maintenance Mode
- Providing High Availability (HA) on the Cloud
- The Physical Infrastructure for Cloud Environments
- Configuring Access Control for Remote Access
- Performing Patch Management
- Performance Monitoring
- Backing Up and Restoring the Host Configuration
- Implementing Network Security Controls: Defense in Depth
- Developing a Management Plan
- Building a Logical Infrastructure for Cloud Environments
- Running a Logical Infrastructure for Cloud Environments
- Managing the Logical Infrastructure for Cloud Environments
- Implementation of Network Security Controls
- Using an ITSM Solution
- Considerations for Shadow IT
- Operations Management
- Managing Risk in Logical and Physical Infrastructures
- The Risk-Management Process Overview
- Understanding the Collection and Preservation of Digital Evidence
- Managing Communications with Relevant Parties
- Wrap-Up: Data Breach Example
- Summary

Chapter 7: Domain 6: Legal and Compliance

- Introduction
- International Legislation Conflicts
- Legislative Concepts
- Frameworks and Guidelines Relevant to Cloud Computing
- Common Legal Requirements
- Legal Controls and Cloud Service Providers

- e-Discovery
- Cloud Forensics and ISO/IEC 27050-1
- Protecting Personal Information in the Cloud
- Auditing in the Cloud
- Standard Privacy Requirements (ISO/IEC 27018)
- GAPP
- Internal Information Security Management System (ISMS)
- Implementing Policies
- Identifying and Involving the Relevant Stakeholders
- Impact of Distributed IT Models
- Understanding the Implications of the Cloud to Enterprise Risk Management
- Risk Mitigation
- Understanding Outsourcing and Contract Design
- Business Requirements
- Vendor Management
- Cloud Computing Certification
- Contract Management
- Supply Chain Management
- Summary

Chapter 8: Appendix A: Helpful Resources and Links

Videos and How To

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

38

VIDEOS

22:47

HOURS

9. 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

60

PRE-ASSESSMENTS
QUESTIONS

2

FULL LENGTH TESTS

50

POST-ASSESSMENTS
QUESTIONS

Features

Full Remediation

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.

Learn, Test and Review Mode

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.

10. 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.

Have Any Query? We Are Happy To Help!

GET IN TOUCH:

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