

# uCertify

## Course Outline

**Cloud Essentials-CompTIA Authorized Courseware  
(Course & Labs)**



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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: What Is Cloud Computing?

Chapter 2: Cloud Models

Chapter 3: Service Models

Chapter 4: Current Cloud Technologies

Chapter 5: Cloud Business Value

Chapter 6: Cloud Infrastructure Planning

Chapter 7: Strategies for Cloud Adoption

Chapter 8: Applications in the Cloud

Chapter 9: Cloud Service Rollout

Chapter 10: Cloud Service-Level Management

Chapter 11: Security in the Cloud

Chapter 12: Privacy and Compliance

Videos and How To

9. Practice Test

Here's what you get

Features

10. Performance Based labs

Lab Tasks

Here's what you get

11. Post-Assessment

## 1. Course Objective

Kick start your prep for the CompTIA Cloud Essentials Certification exam with the Cloud Essentials course and performance-based labs. Performance-based labs simulate real-world, hardware, software & command line interface environments and can be mapped to any text-book, course & training. This course focuses on the real-world scenarios of cloud computing in business and IT. The course also covers topics that include the cloud types, impact and changes on IT service management, business value of cloud computing, steps to a successful adoption of the cloud, and risks and consequences.

## 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. 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.

**220**

**QUIZZES**

## 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.

**133**

**FLASHCARDS**

## 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.

**133**

**GLOSSARY OF  
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: What Is Cloud Computing?

- Defining Cloud Computing
- Understanding Distributed Application Design
- Understanding Resource Management Automation



- Understanding Virtualized Computing Environments
- Understanding High-Performance Computing Models
- Understanding Cloud Computing Technologies
- Review Questions

## Chapter 2: Cloud Models

- Evolving from Virtualization to the Cloud
- Planning Organizational Roles in the Cloud
- Identifying Cloud Deployment Models and Scope Modifiers
- Including Future Cloud Models
- Review Questions

## Chapter 3: Service Models

- Categorizing Cloud Services
- Examining Software as a Service
- Examining Platform as a Service
- Examining Infrastructure as a Service
- Identifying Emerging Cloud Database Capabilities

- Defining Everything as a Service
- Review Questions

## Chapter 4: Current Cloud Technologies

- Comparing Traditional Technologies and Cloud Alternatives
- Accessing the Cloud
- Leveraging Software as a Service
- Developing within Platform as a Service
- Implementing Infrastructure as a Service
- Empowering Mobile Computing
- Review Questions

## Chapter 5: Cloud Business Value

- Identifying Business Drivers for Cloud Computing
- Examining the Business Impact
- Review Questions

## Chapter 6: Cloud Infrastructure Planning

- Understanding Cloud Networks

- Leveraging Automation and Self-Service
- Understanding Federated Cloud Services
- Achieving Interoperability
- Review Questions

## Chapter 7: Strategies for Cloud Adoption

- Aligning Cloud Deployments with Organizational Goals
- Identifying the Impact of Cloud Adoption to Business Processes
- Understanding the Importance of Service-Level Agreements
- Review Questions

## Chapter 8: Applications in the Cloud

- Understanding the Role of Standard Applications
- Developing Cloud-Ready Applications
- Migrating Applications to the Cloud
- Preparing for Technical Challenges
- Identifying and Mitigating Risks
- Review Questions

## Chapter 9: Cloud Service Rollout

- Identifying Vendor Roles and Responsibilities
- Identifying Organizational Skill Requirements
- Transitioning to Live Environments
- Preparing for Incident Management
- Review Questions

## Chapter 10: Cloud Service-Level Management

- Understanding ITIL Service Management
- Applying ITIL to Cloud Computing
- Developing and Utilizing Performance Metrics
- Implementing Continual Process Improvement
- Review Questions

## Chapter 11: Security in the Cloud

- Understanding Security and Risk
- Reviewing Security Standards
- Exploring Common Security Risks and Mitigations

- Implementing an ISMS
- Responding to Incidents
- Recognizing Security Benefits
- Review Questions

## Chapter 12: Privacy and Compliance

- Identifying Legal Risks
- Identifying Privacy Risks
- Managing Identity in the Cloud
- Review Questions

## 12. Practice Test

### Here's what you get

**60**

PRE-ASSESSMENTS  
QUESTIONS

**3**

FULL LENGTH TESTS

**50**

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. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

- Provide hands-on experience in a safe, online environment
- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform

## Lab Tasks

- Understanding cloud bursting
- Understanding physical layer abstraction

- Identifying basic characteristics of cloud
- Identifying cloud based services
- Installing dropbox on your computer
- Understanding distributed application design
- Understanding virtualization
- Identifying SAN and NAS
- Identifying cloud and SAN storage
- Identifying cloud components
- Identifying Server and distributed virtualization
- Identifying organizations for full private cloud deployment
- Understanding cloud deployment models
- Understanding SLA
- Identifying cloud deployment models
- Identifying cloud model from the structure
- Identifying use cases for PaaS
- Identifying cloud service models
- Identifying cloud model
- Identifying application technologies
- Identifying traditional and cloud data center
- Installing the Web Server IIS server role
- Identifying diagonal scaling
- Identifying IT administrative duties
- Identifying cloud architecture benefits
- Identifying IT processes and procedures
- Identifying OSI model layers
- Identifying OSI layer functions
- Creating a virtual machine
- Identifying automated cloud services capabilities
- Identifying storage gateways functions
- Identifying AWS Storage Gateway
- Identifying cloud service aligned with cloud model
- Understanding logical division of layers
- Identifying risk management process
- Identifying cloud service contract
- Identifying ITIL framework phases

- Identifying incident management process
- Identifying service strategy process
- Identifying service strategies
- Identifying roles of cloud players
- Identifying security controls
- Identifying layered security framework
- Identifying benefits of hypervisor
- Understanding secure sockets layer
- Identifying software licensing models
- Identifying Safe Harbor principles

## Here's what you get



### 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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