Course Ou

AWS Certified SysOps Adminis
(SOA-C01)



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1. Course Objective

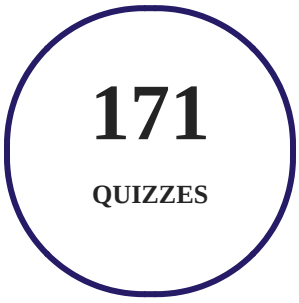
Become AWS SysOps Administrator certified with the AWS Certified SysOps Administrator Associate course and lab. The lab provides a hands-on learning experience in a safe, online environment. The AWS SysOps certification course covers SOA-C01 exam objectives and teaches the skills required for creating and maintaining metrics and alarms utilizing AWS monitoring services; implementing scalability and elasticity based on use case; employing cost-optimization strategies for efficient resource utilization; applying AWS networking features, 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.

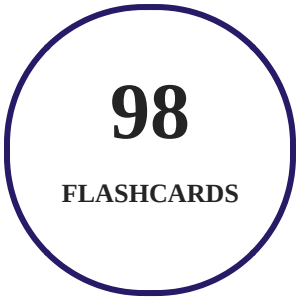
3. Quizzes

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

- What Does this Course Cover?
- Exam Objectives
- Objective Map

Chapter 2: Introduction to Systems Operations on AWS

- Systems Operators
- AWS Certified SysOps Administrator - Associate
- Which AWS Services Should You Study?

- Reference Architecture: The Three-Tier Design
- Summary
- Exam Essentials

Chapter 3: Working with AWS Cloud Services

- Introduction to AWS Cloud Services
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 4: Security and AWS Identity and Access Management (IAM)

- Security on AWS
- Securing Your AWS Account with AWS Identity and Access Management (IAM)
- Securing Your AWS Cloud Services
- Monitoring to Enhance Security
- AWS Cloud Service-Specific Security
- Summary

- Exam Essentials
- Exercises

Chapter 5: Compute

- Introduction to AWS Compute Services
- Amazon Elastic Compute Cloud (Amazon EC2)
- Amazon EC2 Container Service (Amazon ECS)
- AWS Elastic Beanstalk
- AWS Lambda
- Amazon Lightsail
- AWS Batch
- Summary
- Exam Essentials
- Resources to Review
- Exercises

Chapter 6: Networking

- Introduction to Networking on AWS
- Amazon Virtual Private Cloud (Amazon VPC)

- AWS Direct Connect
- Load Balancing
- Virtual Private Network (VPN)
- Amazon Route 53
- Amazon CloudFront
- Summary
- Resources to Review
- Exam Essentials
- Exercises

Chapter 7: Storage Systems

- Understanding Different Storage Options
- Block Storage on AWS
- Object Storage on AWS
- Systems Operator Scenario: The Newspaper
- Additional Storage Solutions
- Summary
- Resources to Review

- Exam Essentials
- Exercises

Chapter 8: Databases

- Introduction to AWS Databases
- Monitoring Amazon RDS
- Non-Relational Databases
- Amazon DynamoDB
- Amazon Redshift
- Databases
- Amazon ElastiCache
- Summary
- Resources to Review
- Exam Essentials
- Exercises

Chapter 9: Application Deployment and Management

- Introduction to Application Deployment and Management

- Deployment Strategies
- Deployment Services
- Summary
- Resources to Review
- Exam Essentials
- Exercises

Chapter 10: Monitoring and Metrics

- Introduction to Monitoring and Metrics
- An Overview of Monitoring
- Amazon CloudWatch
- Amazon CloudWatch Events
- Amazon CloudWatch Logs
- Monitoring AWS Charges
- AWS CloudTrail
- AWS Config
- Summary
- Resources to Review

- Exam Essentials
- Exercises

Chapter 11: High Availability

- Introduction to High Availability
- Amazon Simple Queue Service
- Amazon Simple Notification Service
- Highly Available Architectures
- Multi-Region High Availability
- Highly Available Connectivity Options
- Disaster Recovery
- Summary
- Resources to Review
- Exam Essentials
- Exercises

11. Practice Test

Here's what you get

70	2	70
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

Security and AWS Identity and Access Management (IAM)

- Creating a Linux Instance
- Configuring an IAM Role
- Attaching an AWS IAM Role to an Instance
- Creating an IAM Group
- Creating an IAM Policy

Compute

- Configuring an Amazon Linux Instance
- Creating a Template from an Instance
- Assigning an Elastic IP Address to an EC2 Instance

Networking

- Creating a VPC
- Creating a Subnet
- Creating a VPC Peering Connection
- Creating a Security Group
- Creating a Network Interface
- Creating a Network ACL
- Creating an Image from an Instance
- Creating an Auto Scaling Group with a Single Instance
- Creating a Health Check
- Deleting a VPC

Storage Systems

- Creating an Encrypted Amazon EBS Volume
- Creating a Snapshot

- Creating an Amazon Glacier Vault
- Creating an Amazon S3 Bucket

Databases

- Creating a New Option Group Using the Console

Application Deployment and Management

- Creating an Application in Elastic Beanstalk
- Creating a CloudFormation Template
- Using the AWS Command Line Interface

Monitoring and Metrics

- Creating a CloudWatch Dashboard and Adding a Metric to It

High Availability

- Creating an Amazon SQS Queue
- Creating an Amazon SNS Topic

Here's what you get

29	62	53
LIVE LABS	VIDEO TUTORIALS	MINUTES

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.

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