uCertify

Course Outline

CompTIA Cybersecurity Analyst (CySA+)

Lesson Practice test Lab

02 Jun 2020

Contents

1. Course Objective

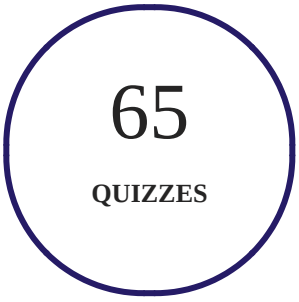
Prepare for the CompTIA CySA+ CS0-001 certification exam with the Cybersecurity Analyst (CySA+) course and lab. The lab simulates real-world, hardware, software, and command-line interface environments and can be mapped to any text-book, course or training. The CompTIA Cybersecurity Analyst (CySA+) cert guide focuses on all the objectives of the CS0-001 exam and is designed for IT security analysts, vulnerability analysts, or threat intelligence analysts to configure and use threat detection tools, and perform data analysis.

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 assignments. 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 5 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

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: Assessing Information Security Risk

- TOPIC A: Identify the Importance of Risk Management
- TOPIC B: Assess Risk
- TOPIC C: Mitigate Risk
- TOPIC D: Integrate Documentation into Risk Management
- Summary

Chapter 2: Analyzing the Threat Landscape

- TOPIC A: Classify Threats and Threat Profiles
- TOPIC B: Perform Ongoing Threat Research
- Summary

Chapter 3: Analyzing Reconnaissance Threats to Computing and Network Environments

- TOPIC A: Implement Threat Modeling
- TOPIC B: Assess the Impact of Reconnaissance Incidents

11. 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

36	75
PRE-ASSESSMENTS QUESTIONS	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.

12. Performance Based Labs

uCertify's performance-based labs are Live Labs. Learn the real world skills using Live 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

- Adding Revision to the Revision History
- Viewing and Downloading the Policy Templates
- Opening the Policy Template and Setting the Company Name
- Reviewing and Modifying the Policy Items
- Identifying the most significant emerging technologies of 2016
- Consulting a Vulnerability Database
- Finding information security blogs
- Performing Reconnaissance on a Network
- Installing Wireshark and WinPcap
- Working with Wireshark's Interface
- Analyzing the Capture File to Find the Attack(s)
- Generating Network Traffic and Using Filters
- Examining the traffic between client and server
- Assessing the impact of malware

- Confirming the Spoofing Attack in Wireshark
- Identifying security apps available for Android
- Examining the DDOS_Attack.pcap File
- Downloading and Running the Scanning Tools
- Conducting Vulnerability Scans
- Identifying Search Options in Metasploit
- Performing the Initial Scan
- Collecting network-based security intelligence
- Exporting your Windows logs
- Making Syslog Entries Readable
- Installing Splunk on the Server
- Manipulating Kali Linux VM's network interfaces
- Retrieving a Real-Time List of Running Processes
- Starting a Live Packet Capture
- Examining the ipconfig options and creating the activity log
- Initiating an SSH Session from your Windows 10 Client to your Windows Server
- Using the Process Explorer to View Specific Details About Running Processes on the System
- Acquiring the Trojan horse simulator
- Accessing remotely the DT_Watch folder to generate audit logs
- Uploading the Trojan horse simulator to VirusTotal
- Uploading the Trojan horse simulator to Malwr
- Identifying a suspicious account on the System User Groups
- Enabling auditing of the DT_Watch folder
- Examining the Audited Events
- Enabling logging for audited objects
- Inspecting the Vulnerability in the echo Server's Source Code

Here's what you get

40

PERFORMANCE BASED LAB

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.