

uCertify

Course Outline

CompTIA Cybersecurity Analyst (CySA) Labs



25 Apr 2024

1. Course Objective
2. Expert Instructor-Led Training
3. ADA Compliant & JAWS Compatible Platform
4. State of the Art Educator Tools
5. Award Winning Learning Platform (LMS)
6. Live labs

Lab Tasks

Here's what you get

1. Course Objective

Get certified for CompTIA CS0-001 certification exam with CompTIA Cybersecurity Analyst (CySA+) 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. The labs focus on the objectives covered in the CompTIA CySA+ CS0-001 exam. CompTIA Cybersecurity Analyst: CS0-001 certification exam is designed for IT security analysts, vulnerability analysts, or threat intelligence analysts.

2. 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.

3. 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.

4. 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.

5. 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

6. 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

Applying Environmental Reconnaissance Techniques

- Performing Reconnaissance on a Network
- Scanning the Rootkit

Practices Used to Secure a Corporate Environment

- Assessing the impact of malware

Implementing an Information Security Vulnerability Management Process

- Consulting a Vulnerability Database

The Incident Response Process

- Initiating an SSH Session from your Windows 10 Client to your Windows Server

Frameworks, Policies, Controls, and Procedures

- Opening the Policy Template and Setting the Company Name
- Reviewing and Modifying the Policy Items
- Adding Revision to the Revision History

Remediating Security Issues Related to Identity and Access Management

- Identifying security apps available for Android
- Accessing remotely the DT_Watch folder to generate audit logs
- Acquiring the Trojan horse simulator
- Uploading the Trojan horse simulator to VirusTotal
- Uploading the Trojan horse simulator to Malware
- Identifying a suspicious account on the System User Groups
- Enabling auditing of the DT_Watch folder
- Enabling logging for audited objects
- Examining the Audited Events

Security Architecture and Implementing Compensating Controls

- Making Syslog Entries Readable

Application Security Best Practices

- Inspecting the Vulnerability in the echo Server's Source Code

Using Cybersecurity Tools and Technologies

- Collecting network-based security intelligence
- Downloading and 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
- Confirming the Spoofing Attack in Wireshark
- Conducting Vulnerability Scans
- Installing Splunk on the Server
- Manipulating Kali Linux VM's network interfaces
- Starting a Live Packet Capture
- Using the Process Explorer to View Specific Details About Running Processes on the System
- Examining the ipconfig options and creating the activity log
- Identifying Search Options in Metasploit
- Performing the Initial Scan

Here's what you get



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