uCertify

Course Outline

CompTIA Cybersecurity Analyst (CySA)

20 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

Gain hands-on experience to pass the CompTIA CS0-001 certification exam with the Cybersecurity Analyst+ (CySA+) 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 lab comprehensively covers the CompTIA CySA+ CS0-001 exam objectives and provides an understanding of topics such as Information Security risk, threat landscape, post-attack techniques, log data analysis, active asset, network analysis, and cybersecurity incident investigation.

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

Assessing Information Security Risk

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

Analyzing the Threat Landscape

- Finding information security blogs
- Consulting a Vulnerability Database
- Identifying the most significant emerging technologies of 2016

Analyzing Reconnaissance Threats to Computing and Network Environments

- Performing Reconnaissance on a Network
- 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
- Assessing the impact of malware

Analyzing Attacks on Computing and Network Environments

- Confirming the Spoofing Attack in Wireshark
- Examining the DDOS_Attack.pcap File
- Identifying security apps available for Android

Analyzing Post-Attack Techniques

- Scanning the Rootkit

Managing Vulnerabilities in the Organization

- Conducting Vulnerability Scans

Implementing Penetration Testing to Evaluate Security

- Identifying Search Options in Metasploit
- Performing the Initial Scan

Collecting Cybersecurity Intelligence

- Collecting network-based security intelligence
- Exporting your Windows logs

Analyzing Log Data

- Making Syslog Entries Readable
- Installing Splunk on the Server

Performing Active Asset and Network Analysis

- Manipulating Kali Linux VM's network interfaces
- Retrieving a Real-Time List of Running Processes
- 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
- Initiating an SSH Session from your Windows 10 Client to your Windows Server
- 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

Addressing Security Architecture Issues

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

Here's what you get

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LIVE LABS

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