# uCertify

# Course Outline

## Computer Security Fundamentals

26 Apr 2024

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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. Performance Based labs

   Lab Tasks

   Here's what you get

# 1. 📖 Course Objective

Gain hands-on expertise in Computer Security with the Computer Security Fundamentals 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 Computer Security labs provide real world experiences and will help you in identifying the cyber threats and removing them. The labs come with step-by-step instructions on how to use some password cracking utilities and network-scanning utilities.

# 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. 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

- Creating a DoS Attack Scenario
- Installing Trojan virus
- Installing Cain & Abel
- Using Cain & Abel
- Encrypting and decrypting using CrypTool
- Using AES encryption and decryption
- Using data encryption recovery agent
- Running and installing HashCalc
- Installing and using MD5 calculator
- Updating Windows Defender
- Using anti-malware scanner
- Configuring antivirus server application
- Creating an inbound rule
- Verifying Windows Firewall and examining inbound rules
- Configuring Windows firewall settings
- Installing an intrusion detection tool
- Running snort tool
- Rerunning Snort tool
- Editing snort configuration file
- Creating folder and rules file in snort folder
- Requesting user certificates
- Managing SSL settings
- Configuring IPSec
- Configuring connection security rules
- Creating policy for guest account
- Configuring password policy
- Configuring Local Security Policy
- Analyzing OWASP ZAP
- Scanning the PC for unsigned device drivers

- Scanning the URI using Vega
- Running Windows security related commands
- Adding counters
- Running the MBSA tool
- Examining Computer Management
- Using netcat to verify network service
- Creating account in Shodan
- Managing cases using OSForensics
- Configuring and scanning recent activity
- Creating a drive image
- Creating Index
- Recovering deleted files
- Managing services
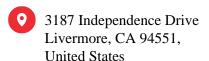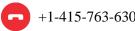- Running the Windows commands

## Here's what you get

| **43** | **41** | **46** |
|---|---|---|
| **PERFORMANCE BASED LAB** | **VIDEO TUTORIALS** | **MINUTES** |

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