

uCertify

Course Outline

Cybercrime and Cybersecurity



26 Apr 2025

1. Pre-Assessment
2. Exercises, Quizzes, Flashcards & Glossary
Number of Questions
3. Expert Instructor-Led Training
4. ADA Compliant & JAWS Compatible Platform
5. State of the Art Educator Tools
6. Award Winning Learning Platform (LMS)
7. Chapter & Lessons

Syllabus

Chapter 1: Preface

Chapter 2: Introduction

Chapter 3: Risk Management

Chapter 4: Threats

Chapter 5: Organisational Responses

Chapter 6: Operational Security: Users

Chapter 7: Operational Security: Systems

Chapter 8: Operational Security: Threat Response

Chapter 9: Technical Responses: Securing Systems

Chapter 10: Technical Responses: Forensics

Chapter 11: Technical Responses: Penetration Testing

Chapter 12: Regulatory and Legal Responses

Chapter 13: Honeypots and Deception

Videos and How To

8. Practice Test

Here's what you get

Features

9. Live labs

Lab Tasks

Here's what you get

10. Post-Assessment

1. 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.

2. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

253
EXERCISES

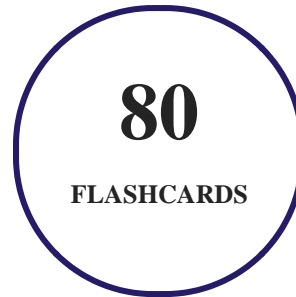
3. Quiz

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.

209
QUIZ

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: Preface

Chapter 2: Introduction

- CIA Triad
- Confidentiality
- Integrity
- Availability
- Conclusion

Chapter 3: Risk Management

- Introduction
- Risk Assessment Scope
- Analysing Data
- Risk Mitigation or Acceptance?
- Case Study: Which Country Is Most Likely to Attack?
- Conclusion

Chapter 4: Threats

- Introduction
- Mistakes
- Stealing and Fraud
- Employee Sabotage
- Supporting Infrastructure Loss
- Hacking
- Espionage (Commercial and Government)
- Malicious Code (Malware)
- Scams
- Case Study: Data Loss in the British Government

- Conclusion

Chapter 5: Organisational Responses

- Introduction
- The Cybersecurity Strategy
- Case Study: Monitoring the Underground Economy
- Conclusion

Chapter 6: Operational Security: Users

- Introduction
- Staffing
- Managing Users
- Psychological Factors
- Modifying User Behaviour
- Case Study: A Non-Associative Model of Phishing
- Conclusion

Chapter 7: Operational Security: Systems

- Introduction

- Physical Security
- Conclusion

Chapter 8: Operational Security: Threat Response

- Introduction
- Situational Crime Prevention
- Incident Response
- Disaster Response
- Conclusion

Chapter 9: Technical Responses: Securing Systems

- Introduction
- Identification and Authentication
- Authorisation and Access Control
- Cryptography
- Steganography
- Antivirus
- Conclusion

Chapter 10: Technical Responses: Forensics

- Introduction
- Conclusion

Chapter 11: Technical Responses: Penetration Testing

- Introduction
- Breaking into Your Own Network
- Breaking Your Own Applications
- Conclusion

Chapter 12: Regulatory and Legal Responses

- Introduction
- Expert Juries
- Conclusion

Chapter 13: Honeypots and Deception

- Introduction
- Child Exploitation as a Cybercrime
- Technical Mechanisms for Warning Message Delivery

- The Classic Case
- The Broader Case
- Legal Issues
- Conclusion

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

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VIDEOS

02

MINUTES

11. Practice Test

Here's what you get

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PRE-ASSESSMENTS QUESTIONS

90

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

Introduction

- Creating and Verifying the Digital Signature
- Simulating the DDoS Attack

Threats

- Exploiting a Website Using SQL Injection
- Performing Social Engineering Attack
- Cracking Passwords Using Cain and Abel
- Examining Spyware
- Cracking a Linux Password Using John the Ripper
- Creating a Remote Access Trojan (RAT)
- Scanning and Classifying Different Types of Viruses

Organisational Responses

- Enforcing Password Policies

Operational Security: Systems

- Identifying Access Badge Areas
- Implementing Physical Security

Technical Responses: Securing Systems

- Creating File Hashes
- Understanding SHA Hash Algorithms
- Changing the Permissions of a File Using the chmod Command
- Enabling an Access Control List
- Creating Linux Users and Groups
- Using Symmetric Encryption

- Creating Asymmetric Key Pairs
- Performing Steganography Using OpenStego
- Installing Antivirus Software

Technical Responses: Forensics

- Converting an NTFS Partition to FAT32 Using Disk Management

Technical Responses: Penetration Testing

- Configuring a Network Firewall
- Performing Nmap Port Scanning
- Sniffing a Network with Wireshark
- Conducting Vulnerability Scanning Using Nessus
- Attacking a Website Using XSS Injection

Honeypots and Deception

- Setting Up a Honeypot

Here's what you get

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LIVE LABS

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VIDEO TUTORIALS

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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.

You can't stay away! Get

in touch with our team to