

uCertify

Course Outline

**Developing Cybersecurity Programs and Policies in an
AI-Driven World**



11 Feb 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: Introduction
Chapter 2: Understanding Cybersecurity Policy and Governance
Chapter 3: Cybersecurity Policy Organization, Format, and Styles
Chapter 4: Cybersecurity Frameworks
Chapter 5: Cloud Security
Chapter 6: Governance and Risk Management
Chapter 7: Asset Management and Data Loss Prevention
Chapter 8: Human Resources Security and Education
Chapter 9: Physical and Environmental Security
Chapter 10: Cybersecurity Operations (CyberOps), Incident Response, Digital Forensics, and Threat Hunting
Chapter 11: Access Control Management
Chapter 12: Supply Chain Security, Information Systems Acquisition, Development, and Maintenance
Chapter 13: Business Continuity Management
Chapter 14: Regulatory Compliance for Financial Institutions
Chapter 15: Regulatory Compliance for the Health-care Sector
Chapter 16: PCI Compliance for Merchants
Chapter 17: Privacy in an AI-Driven Landscape
Chapter 18: Artificial Intelligence Governance and Regulations

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.

474
EXERCISES

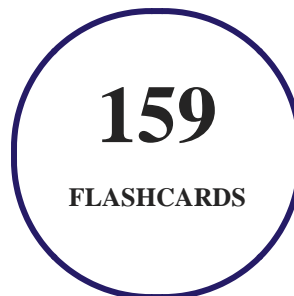
3. Quiz

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.



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: Introduction

Chapter 2: Understanding Cybersecurity Policy and Governance

- Information Security vs. Cybersecurity Policies

- Looking at Policy Through the Ages
- Cybersecurity Policy
- Cybersecurity Policy Life Cycle
- Summary
- Exercises
- Projects
- References

Chapter 3: Cybersecurity Policy Organization, Format, and Styles

- Policy Hierarchy
- Writing Style and Technique
- Policy Format
- Summary
- Exercises
- Projects
- References

Chapter 4: Cybersecurity Frameworks

- Confidentiality, Integrity, and Availability (CIA)

- What Is a Cybersecurity Framework?
- NIST Cybersecurity Framework
- Summary
- Exercises
- Projects
- References

Chapter 5: Cloud Security

- Why Cloud Computing?
- Cloud Computing Models
- Cloud Governance
- Multitenancy
- Core Components of the Cloud Computing Reference Architecture
- Key Concepts and Functional Layers of Cloud Computing
- Understanding Top Cybersecurity Risks in Cloud Computing
- AI and the Cloud: Revolutionizing the Future of Computing
- Summary
- Exercises

- References

Chapter 6: Governance and Risk Management

- Understanding Cybersecurity Policies
- Cybersecurity Risk
- Summary
- Exercises
- Projects
- References

Chapter 7: Asset Management and Data Loss Prevention

- Information Assets and Systems
- Information Classification
- Labeling and Handling Standards
- Information Systems Inventory
- Understanding Data Loss Prevention Technologies
- Summary
- Exercises

- Projects
- References

Chapter 8: Human Resources Security and Education

- The Employee Life Cycle
- The Importance of Employee Agreements
- The Importance of Security Education and Training
- Summary
- Exercises
- Projects
- References

Chapter 9: Physical and Environmental Security

- Understanding the Secure Facility Layered Defense Model
- Protecting Equipment
- Environmental Sustainability
- Summary
- Exercises
- Projects

- References

Chapter 10: Cybersecurity Operations (CyberOps), Incident Response, Digital Forensics, and Threat Hunting

- Incident Response
- What Happened? Investigation and Evidence Handling
- Understanding Threat Hunting
- Understanding Digital Forensic Analysis
- Data Breach Notification Requirements
- Summary
- Exercises
- Projects
- References

Chapter 11: Access Control Management

- Access Control Fundamentals
- Infrastructure Access Controls
- User Access Controls
- Summary

- Exercises
- Projects
- References

Chapter 12: Supply Chain Security, Information Systems Acquisition, Development, and Maintenance

- Strengthening the Links: A Deep Dive into Supply Chain Security
- System Security Requirements
- Secure Code
- Cryptography
- Summary
- Exercises
- Projects
- References

Chapter 13: Business Continuity Management

- Emergency Preparedness
- Business Continuity Risk Management
- The Business Continuity Plan

- Business Continuity and Disaster Recovery in Cloud Services
- Plan Testing and Maintenance
- Summary
- Exercises
- Projects
- References

Chapter 14: Regulatory Compliance for Financial Institutions

- The Gramm-Leach-Bliley Act
- New York's Department of Financial Services Cybersecurity Regulation
- What Is a Regulatory Examination?
- Personal and Corporate Identity Theft
- Regulation of Fintech, Digital Assets, and Cryptocurrencies
- Summary
- Exercises
- Projects
- References

Chapter 15: Regulatory Compliance for the Health-care Sector

- The HIPAA Security Rule
- The HITECH Act and the Omnibus Rule
- Understanding the HIPAA Compliance Enforcement Process
- Summary
- Exercises
- Projects
- References

Chapter 16: PCI Compliance for Merchants

- Protecting Cardholder Data
- PCI Compliance
- Summary
- Exercises
- Projects
- References

Chapter 17: Privacy in an AI-Driven Landscape

- Defining Privacy in the Digital Context

- The Interplay Between AI and Privacy
- General Data Protection Regulation (GDPR)
- California Consumer Privacy Act (CCPA)
- Personal Information Protection and Electronic Documents Act (PIPEDA)
- Data Protection Act 2018 in the United Kingdom
- Leveraging AI to Enhance Privacy Protections
- Summary
- Exercises
- Project
- References

Chapter 18: Artificial Intelligence Governance and Regulations

- The AI Double-Edged Sword
- Generative AI, LLMs, and Traditional Machine Learning Implementations
- Introduction to AI Governance
- The U.S. Executive Order on the Safe, Secure, and...y Development and Use of Artificial Intelligence
- The Importance of High Accuracy and Precision in AI Systems
- Explainable AI (XAI): Building Trust and Understanding

- Government and Society-wide Approaches to AI Governance
- The EU AI Act
- Guidelines for Secure AI System Development
- OWASP Top 10 Risks for LLM
- MITRE ATLAS Framework
- Summary
- Exercises
- Project
- References

11. Practice Test

Here's what you get

85

**PRE-ASSESSMENTS
QUESTIONS**

2

FULL LENGTH TESTS

85

**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

Understanding Cybersecurity Policy and Governance

- Understanding Cybersecurity Policy and Governance

Cybersecurity Policy Organization, Format, and Styles

- Exploring Cybersecurity Policy Templates

Cybersecurity Frameworks

- Understanding and Implementing the NIST Cybersecurity Framework

Cloud Security

- Exploring the Integration of AI and Cloud Computing

Governance and Risk Management

- Analyzing and Developing Cybersecurity Policies

Asset Management and Data Loss Prevention

- Exploring Data Loss Prevention (DLP) Technologies and Their Role in Cybersecurity

Human Resources Security and Education

- Exploring Security Education and Training: Building a Cybersecurity-Aware Workforce

Physical and Environmental Security

- Implementing Physical Security
- Integrating Environmental Sustainability into Organizational Strategy

Cybersecurity Operations (CyberOps), Incident Response, Digital Forensics, and Threat Hunting

- Leveraging AI for Enhanced Threat Intelligence in Cybersecurity
- Examining MITRE ATT&CK
- Analyzing Pwned Passwords
- Completing the Chain of Custody Form

Access Control Management

- Enabling an ACL
- Configuring a Firewall
- Setting Up a DMZ
- Implementing Intrusion Detection and Prevention

Supply Chain Security, Information Systems Acquisition, Development, and Maintenance

- Fuzzing Using OWASP ZAP
- Examining PKI Certificates
- Understanding Symmetric Key Cryptography
- Creating Asymmetric Key Pairs

Business Continuity Management

- Understanding Business Continuity and Disaster Recovery in Cloud Environments

Regulatory Compliance for Financial Institutions

- Understanding Personal and Corporate Identity Theft

Regulatory Compliance for the Health-care Sector

- Ensuring Compliance with the HIPAA Security Rule

PCI Compliance for Merchants

- Safeguarding Cardholder Data: Exploring PCI DSS Compliance

Privacy in an AI-Driven Landscape

- Balancing AI and Privacy: Exploring Privacy-Preserving Techniques in AI

Artificial Intelligence Governance and Regulations

- Enhancing Accuracy and Precision in AI Systems: A Critical Analysis

- Implementing Guidelines for Secure AI System Development

Here's what you get

28
LIVE LABS

12
VIDEO TUTORIALS

22
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

 3187 Independence Drive
Livermore, CA 94551,
United States



+1-415-763-6300



support@ucertify.com



www.ucertify.com