

uCertify

Course Outline

CompTIA SecurityX



30 Oct 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: Security Governance
Chapter 3: Risk Management and Compliance
Chapter 4: Security Frameworks and Regulations
Chapter 5: Threat Actors and Security Challenges
Chapter 6: Security Architecture
Chapter 7: Access Controls and Identity Management
Chapter 8: Enterprise Security Engineering
Chapter 9: Security Operations and Monitoring
Chapter 10: Cryptography in Practice
Chapter 11: Incident Response and Threat Intelligence
Videos and How To
8. Practice Test
Here's what you get
Features
9. Live labs
Lab Tasks
Here's what you get

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. 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. 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

- Before You Begin the CompTIA SecurityX Certification Exam
- Who Should Read This Course
- What You Will Learn
- How to Use This Course
- Tips for Taking the SecurityX Exam
- CompTIA SecurityX Study Guide Exam Objectives
- The SecurityX Exam Objective Map

Chapter 2: Security Governance

- Security Program Management and Documentation
- Governance Frameworks
- Change and Configuration Management
- Summary

Chapter 3: Risk Management and Compliance

- Risk Assessment and Management
- Risk Considerations
- Privacy Regulations

- Cross-Jurisdictional Compliance Requirements
- Summary

Chapter 4: Security Frameworks and Regulations

- Industry Information Security Standards
- Security and Reporting Frameworks
- Summary

Chapter 5: Threat Actors and Security Challenges

- Types of Threat Actors
- Threat Actor Characteristics
- Attack Frameworks and Models
- Attack Surface Determination
- Security Challenges with Artificial Intelligence
- Summary

Chapter 6: Security Architecture

- Resilient System Design
- Software and Hardware Assurance Methods

- Continuous Integration/Continuous Delivery (CI/CD) Pipelines
- Secure Architecture Design
- Summary

Chapter 7: Access Controls and Identity Management

- Access Control Technologies
- Access Control Models
- Public Key Infrastructure (PKI)
- Secure Cloud Identity and Access Capabilities
- Zero Trust in Secure Architecture
- Subject Access Control
- Secrets Management
- Conditional Access
- IAM Components
- Summary

Chapter 8: Enterprise Security Engineering

- Endpoint and Server Security
- Network Infrastructure Security Issues

- Domain Name Security
- Email Security
- Hardware Security Techniques
- Securing Legacy Systems
- Summary

Chapter 9: Security Operations and Monitoring

- Security Automation
- Security Content Automation Protocol (SCAP)
- Summary

Chapter 10: Cryptography in Practice

- Advanced Cryptographic Concepts
- Cryptographic Use Cases
- Cryptographic Techniques
- Summary

Chapter 11: Incident Response and Threat Intelligence

- Security Information and Event Management (SIEM)

- Data Aggregation & Baselines
- Alerting, Reporting, and Metrics
- Attacks and Vulnerabilities
- Mitigation Techniques
- Threat Hunting
- Threat Intelligence Sources
- Malware Analysis
- Artifact Analysis
- Summary

7. Practice Test

Here's what you get

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.

8. 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

Security Governance

- Using Anti-Phishing Tools

Threat Actors and Security Challenges

- Examining MITRE ATT&CK
- Understanding Prompt Injection
- Using the Social Engineering Toolkit

Security Architecture

- Cracking Passwords Using Cain and Abel
- Configuring a VPN
- Cracking Linux Passwords Using John the Ripper
- Configuring a Standard ACL
- Configuring a Linux Firewall Using iptables
- Creating a Firewall Rule
- Using PuTTY
- Tracking Vulnerabilities in Software
- Performing Nmap Port Scanning

Access Controls and Identity Management

- Examining PKI Certificates
- Requesting PKI Certificates
- Creating a Windows Domain User
- Creating Linux Users and Groups
- Examining Kerberos Settings
- Implementing MFA on Mobile Devices

Enterprise Security Engineering

- Simulating a DoS Attack
- Attempting a Zone Transfer
- Performing Vulnerability Scanning Using OpenVAS
- Bypassing Command Shell Restrictions
- Securing a Wi-Fi Hotspot

Cryptography in Practice

- Performing Symmetric Encryption
- Observing an MD5-Generated Hash Value
- Using the SHA Series Algorithm
- Creating Asymmetric Key Pairs
- Creating File Hashes

Incident Response and Threat Intelligence

- Viewing Linux Event Logs
- Exploiting a TOCTOU Vulnerability
- Exploiting an Overflow Vulnerability
- Attacking a Website Using XSS Injection
- Conducting a CSRF Attack
- Exploiting a Website Using SQL Injection
- Using WinDump
- Viewing Windows Event Logs
- Performing Passive Reconnaissance
- Using Maltego to Gather Information

Here's what you get



You can't stay away! Get

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