uCertify

Course Outline

CompTIA Security+ (SY0-701)

10 May 2024

1. Course Objective

2. Pre-Assessment

3. Exercises, Quizzes, Flashcards & Glossary

   Number of Questions

4. Expert Instructor-Led Training

5. ADA Compliant & JAWS Compatible Platform

6. State of the Art Educator Tools

7. Award Winning Learning Platform (LMS)

8. Chapter & Lessons

   Syllabus

   Chapter 1: Introduction

   Chapter 2: Today's Security Professional

   Chapter 3: Cybersecurity Threat Landscape

   Chapter 4: Malicious Code

   Chapter 5: Social Engineering and Password Attacks

   Chapter 6: Security Assessment and Testing

   Chapter 7: Application Security

   Chapter 8: Cryptography and the PKI

   Chapter 9: Identity and Access Management

   Chapter 10: Resilience and Physical Security

   Chapter 11: Cloud and Virtualization Security

   Chapter 12: Endpoint Security

   Chapter 13: Network Security

   Chapter 14: Wireless and Mobile Security

   Chapter 15: Monitoring and Incident Response

   Chapter 16: Digital Forensics

   Chapter 17: Security Governance and Compliance

   Chapter 18: Risk Management and Privacy

Videos and How To

9. Practice Test

Here's what you get

Features

10. Live labs

Lab Tasks

Here's what you get

11. Post-Assessment

1. 📖 Course Objective

The CompTIA Security+ (SY0-701) course covers the SY0-701 exam objectives and provides knowledge in areas such as covering in-demand skills related to current threats, automation, zero trust, IoT, risk, and more, this course represents the forefront of cybersecurity education. Learn and use the newest developments in cybersecurity technology, terminology, techniques, and tools.The CompTIA Security+ study guide will help you get a full understanding of the challenges you'll face as a security professional.

2. 📋 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.

3. ⊕ 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.

427
EXERCISES

4. ⏱ Quizzes

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.

340

QUIZZES

5. ⚡ 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.

455

FLASHCARDS

6. 📖 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.

170

GLOSSARY OF TERMS

7. 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.

8. 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.

9. 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.

10. 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

11. 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

- The Security+ Exam

- What Does This Course Cover?

- Exam SY0-701 Exam Objectives

Chapter 10: Resilience and Physical Security

- Resilience and Recovery in Security Architectures

- Response and Recovery Controls

- Physical Security Controls

- Summary

- Exam Essentials

Chapter 11: Cloud and Virtualization Security

- Exploring the Cloud

- Virtualization

- Cloud Infrastructure Components

- Cloud Security Issues

- Hardening Cloud Infrastructure

- Summary

- Exam Essentials

Chapter 12: Endpoint Security

- Operating System Vulnerabilities

- Hardware Vulnerabilities

- Protecting Endpoints

- Hardening Techniques

- Operating System Hardening

- Securing Embedded and Specialized Systems

- Asset Management

- Summary

- Exam Essentials

Chapter 13: Network Security

- Designing Secure Networks

- Secure Protocols

- Network Attacks

- Summary

- Exam Essentials

Chapter 14: Wireless and Mobile Security

- Building Secure Wireless Networks

Chapter 17: Security Governance and Compliance

- Security Governance

- Understanding Policy Documents

- Change Management

- Personnel Management

- Third-Party Risk Management

- Complying with Laws and Regulations

- Adopting Standard Frameworks

- Security Awareness and Training

- Summary

- Exam Essentials

Chapter 18: Risk Management and Privacy

- Analyzing Risk

- Managing Risk

- Risk Tracking

- Disaster Recovery Planning

- Privacy

- Summary

- Exam Essentials

12. ⊚ Practice Test

uCertify provides full length practice tests. These tests closely follow the exam objectives and are designed to simulate real exam conditions. Each course has a number of test sets consisting of hundreds of items to ensure that learners are prepared for the certification exam.

Here's what you get

90	**2**	**90**
PRE-ASSESSMENTS QUESTIONS	FULL LENGTH TESTS	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.

13. 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

Malicious Code

- Examining Spyware
- Analyzing Malware Using VirusTotal

Social Engineering and Password Attacks

- Using Social Engineering Techniques to Plan an Attack
- Cracking a Linux Password Using John the Ripper
- Cracking Passwords

Security Assessment and Testing

- Scan for Vulnerabilities Using Nikto
- Conducting Vulnerability Scanning Using Nessus
- Consulting a Vulnerability Database

- Gathering Site Information

Application Security

- Fuzzing Using OWASP ZAP
- Performing SQL Injection in DVWA
- Exploiting LFI and RFI Vulnerabilities
- Conducting a Cross-Site Request Forgery Attack
- Performing an XSS Attack in DVWA
- Examining Application Vulnerabilities
- Exploiting an Overflow Vulnerability
- Exploiting a TOCTOU Vulnerability

Cryptography and the PKI

- Using Symmetric Encryption
- Creating Asymmetric Key Pairs
- Creating File Hashes
- Examining PKI Certificates

Identity and Access Management

- Installing a RADIUS Server
- Examining Kerberos Settings
- Enforcing Password Policies
- Using the chmod Command
- Creating Linux Users and Groups

Cloud and Virtualization Security

- Detecting Virtualization

Network Security

- Capturing Credentials On-path
- Launching a DoS Attack

Wireless and Mobile Security

- Securing a Wi-Fi Hotspot

Monitoring and Incident Response

- Examining MITRE ATT&CK
- Viewing Linux Event Logs
- Viewing Windows Event Logs

Digital Forensics

- Completing the Chain of Custody
- Using FTK Imager
- Analyzing Forensic Case with Autopsy

Here's what you get

36	35	01:34
LIVE LABS	**VIDEO TUTORIALS**	**HOURS**

14. 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.