

# uCertify

## Course Outline

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**Systems Security Certified  
Practitioner Study Guide**



Lesson



Practice test

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## 1. Course Objective

Prepare for the ISC2 SSCP certification exam with the Systems Security Certified Practitioner Study Guide. This course completely covers the objectives of the ISC2 SSCP exam and includes topics such as access controls, security operations and administration; risk identification, monitoring and analysis; cryptography, and network and communications security. The course covers all the concepts used in system security with its interactive learning resources.

## 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.

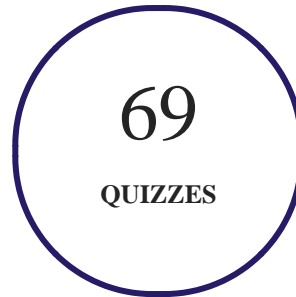
## 3. Exercises

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.

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EXERCISES

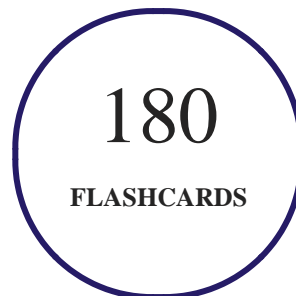
## 4. Quizzes

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.



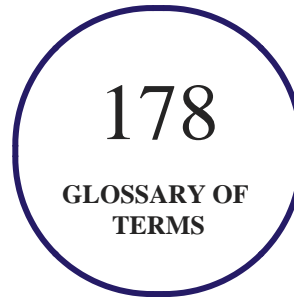
## 5. Flashcards

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.



## 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.



## 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 assignments. 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

### Chapter 2: Information Security: The Systems Security Certified Practitioner Certification

- About the (ISC)2 Organization
- Exams, Testing, and Certification
- The SSCP Exam
- Summary
- Exam Essentials

### Chapter 3: Security Basics: A Foundation

- The Development of Security Techniques
- Understanding Security Terms and Concepts
- Security Foundation Concepts

- Participating in Security Awareness Education
- Summary
- Exam Essentials
- Written Lab Study Guide

## Chapter 4: Domain 1: Access Controls

- What Are Controls?
- Types of Access Controls
- Identification
- Authentication
- System-Level Access Controls
- Discretionary Access Control (DAC)
- Nondiscretionary Access Control
- Mandatory Access Control
- Summary
- Exam Essentials
- Written Lab Study Guide

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## Chapter 5: Domain 2: Security Operations and Administration

- Security Administration Concepts and Principles
- Data Management Policies
- Endpoint Device Security
- Security Education and Awareness Training
- Business Continuity Planning
- Summary
- Exam Essentials
- Written Lab Study Guide

## Chapter 6: Domain 3: Risk Identification, Monitoring, and Analysis

- Understanding the Risk Management Process
- Risk Management Frameworks and Guidance for Managing Risks
- Risk Analysis and Risk Assessment
- Managing Risks
- Risk Visibility and Reporting
- Analyzing Monitoring Results

- Summary
- Exam Essentials
- Written Lab Study Guide

## Chapter 7: Domain 4: Incident Response and Recovery

- Event and Incident Handling Policy
- Creating and Maintaining an Incident Response Plan
- Understanding and Supporting Forensic Investigations
- Understanding and Supporting the Business Continuity Plan and the Disaster Recovery Plan
- Summary
- Exam Essentials
- Written Lab Study Guide

## Chapter 8: Domain 5: Cryptography

- Concepts and Requirements of Cryptography
- Key Management
- Secure Protocols
- Summary

- Exam Essentials
- Written Lab Study Guide

## Chapter 9: Domain 6: Networks and Communications

- Network Models
- Network Design Topographies
- Ports and Protocols
- Converged Network Communications
- Network Monitoring and Control
- Access Control Protocols and Standards
- Remote User Authentication Services
- Local User Authentication Services
- Network Segmentation
- Securing Devices
- Security Posture
- Firewall and Proxy Implementation
- Network Routers and Switches
- Intrusion Detection and Prevention Devices

- Telecommunications Remote Access
- Wireless & Cellular Technologies
- Wireless Networks
- Traffic Shaping Techniques and Devices
- Quality of Service
- Summary
- Exam Essentials
- Written Lab Study Guide

## Chapter 10: Domain 7: Systems and Application Security

- Understand Malicious Code and Apply Countermeasures
- Malicious Add-Ons
- User Threats and Endpoint Device Security
- Understand and Apply Cloud Security
- Secure Data Warehouse and Big Data Environments
- Secure Software-Defined Networks and Virtual Environments
- Summary

- Exam Essentials
- Written Lab Study Guide

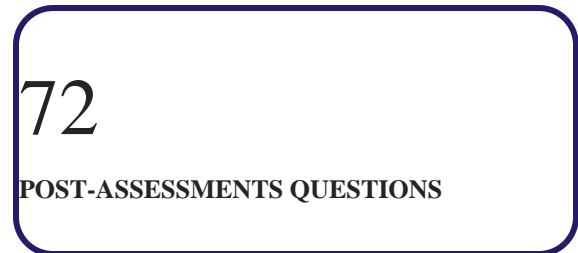
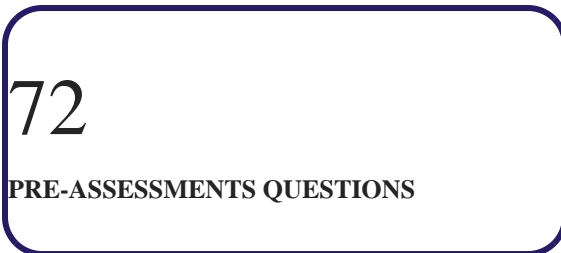
## Chapter 11: Appendix A: Diagnostic Tools

- Microsoft Baseline Security Analyzer
- Microsoft Password Checker
- Internet Explorer Phishing and Malicious Software Filter
- Manage Internet Cookies
- Observing Logs with Event Viewer
- Viewing a Digital Certificate
- Monitoring PC Activities with Windows Performance Monitor
- Analyzing Error Messages in Event Viewer
- Calculate Hash Values

## 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



## Features

### Full Remediation

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.

### Learn, Test and Review Mode

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. 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.



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