

uCertify

# Course Outline

---

Pearson: CompTIA Advanced  
Security Practitioner



Lesson



Practice test

## Contents

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: CompTIA® Advanced Security Practitioner (CASP) CAS-002 Cert Guide  
Chapter 2: INTRODUCTION  
Chapter 3: Cryptographic concepts and Techniques  
Chapter 4: Enterprise Storage  
Chapter 5: Network and security components, concepts, and Architectures  
Chapter 6: Security controls for hosts  
Chapter 7: Application Vulnerabilities and Security Controls  
Chapter 8: Business Influences and Associated Security Risks  
Chapter 9: Risk Mitigation Planning, Strategies, and Controls  
Chapter 10: Security, Privacy Policies, and Procedures  
Chapter 11: Incident Response and Recovery Procedures  
Chapter 12: Industry Trends  
Chapter 13: Securing the Enterprise  
Chapter 14: Assesment Tools and Methods

Chapter 15: Business Unit Collaboration

Chapter 16: Secure Communication and Collaboration

Chapter 17: Security Across the Technology Life Cycle

Chapter 18: Host, Storage, Network, and Application Integration into a Secure Enterprise Architecture

Chapter 19: Authentication and Authorization Technologies

Videos and How To

9. Practice Test

Here's what you get

Features

10. Post-Assessment

## 1. Course Objective

Gain hands-on expertise in CompTIA Advanced Security Practitioner (CASP) certification exam by Pearson: CompTIA Advanced Security Practitioner course. The course provides complete coverage of CAS-002 exam. The exam involves an application of critical thinking and judgment across a broad spectrum of security disciplines to propose and implement solutions that map to enterprise drivers while managing risk.

## 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, Quizzes, Flashcards & Glossary

Each lesson comes with Exercises, Flashcards & Quizzes. 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. Flashcards help master the key concepts while Glossary defines the key terms.

## Number of Questions

800

Over 800 unique questions including pre-assessment, quizzes, exercises, and post assessment.

## 4. 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.

## 5. 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.

## 6. 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.

## 7. 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 4 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

## 8. 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: CompTIA® Advanced Security Practitioner (CASP) CAS-002 Cert Guide

- About the Authors
- Dedication
- Acknowledgments
- About the Reviewers
- We Want to Hear from You!

## Chapter 2: INTRODUCTION

- The Goals of the CASP Certification
- The Value of the CASP Certification
- CASP Exam Objectives
- Steps to Becoming a CASP
- CompTIA Authorized Materials Use Policy

## Chapter 3: Cryptographic concepts and Techniques

- Cryptographic Techniques
- Cryptographic Concepts
- Cryptographic Implementations
- Review All Key Topics

## Chapter 4: Enterprise Storage

- Storage Types
- Storage Protocols
- Secure Storage Management
- Review All Key Topics

## Chapter 5: Network and security components, concepts, and Architectures

- Advanced Network Design (Wired/Wireless)
- Virtual Networking and Security Components
- Complex Network Security Solutions for Data Flow
- Secure Configuration and Baselineing of Networking and Security Components
- Software-Defined Networking

- Cloud-Managed Networks
- Network Management and Monitoring Tools
- Advanced Configuration of Routers, Switches, and Other Network Devices
- Security Zones
- Network Access Control
- Operational and Consumer Network-Enabled Devices
- Critical Infrastructure/Supervisory Control and ...ision (SCADA)/Industrial Control Systems (ICS)
- Review All Key Topics

## Chapter 6: Security controls for hosts

- Trusted OS
- Endpoint Security Software
- Host Hardening
- Security Advantages and Disadvantages of Virtualizing Servers
- Cloud-Augmented Security Services
- Boot Loader Protections
- Vulnerabilities Associated with Commingling of Hosts with Different Security Requirements
- Virtual Desktop Infrastructure (VDI)
- Terminal Services/Application Delivery Services
- Trusted Platform Module (TPM)
- Virtual TPM (VTPM)
- Hardware Security Module (HSM)
- Review All Key Topics

## Chapter 7: Application Vulnerabilities and Security Controls

- Web Application Security Design Considerations
- Specific Application Issues
- Application Sandboxing
- Application Security Frameworks
- Secure Coding Standards
- Software Development Methods
- Database Activity Monitoring (DAM)



- Web Application Firewalls (WAF)
- Client-Side Processing Versus Server-Side Processing
- Review All Key Topics

## Chapter 8: Business Influences and Associated Security Risks

- Risk Management of New Products, New Technologies, and User Behaviors
- New or Changing Business Models/Strategies
- Security Concerns of Integrating Diverse Industries
- Ensuring That Third-Party Providers Have Requisite Levels of Information Security
- Internal and External Influences
- Impact of De-perimeterization
- Review All Key Topics

## Chapter 9: Risk Mitigation Planning, Strategies, and Controls

- Classify Information Types into Levels of CIA Based on Organization/Industry
- Incorporate Stakeholder Input into CIA Decisions
- Implement Technical Controls Based on CIA Requirements and Policies of the Organization
- Determine the Aggregate CIA Score
- Extreme Scenario/Worst-Case Scenario Planning
- Determine Minimum Required Security Controls Based on Aggregate Score
- Conduct System-Specific Risk Analysis
- Make Risk Determination
- Recommend Which Strategy Should be Applied Based on Risk Appetite
- Risk Management Processes
- Enterprise Security Architecture Frameworks
- Continuous Improvement/Monitoring
- Business Continuity Planning
- IT Governance
- Review All Key Topics

## Chapter 10: Security, Privacy Policies, and Procedures

- Policy Development and Updates in Light of New Business, Technology, Risks, and

#### Environment Changes

- Process/Procedure Development and Updates in Light of Policy, Environment, and Business Changes
- Support Legal Compliance and Advocacy by Partnering with HR, Legal, Management, and Other Entities
- Use Common Business Documents to Support Security
- Use General Privacy Principles for Sensitive Information (PII)
- Support the Development of Various Policies
- Review All Key Topics

### Chapter 11: Incident Response and Recovery Procedures

- E-Discovery
- Data Breach
- Design Systems to Facilitate Incident Response
- Incident and Emergency Response
- Review All Key Topics

### Chapter 12: Industry Trends

- Perform Ongoing Research
- Situational Awareness
- Vulnerability Management Systems
- Advanced Persistent Threats
- Zero-Day Mitigating Controls and Remediation
- Emergent Threats and Issues
- Research Security Implications of New Business Tools
- Global IA Industry/Community
- Research Security Requirements for Contracts
- Review All Key Topics

### Chapter 13: Securing the Enterprise

- Create Benchmarks and Compare to Baselines
- Prototype and Test Multiple Solutions

- Cost/Benefit Analysis
- Metrics Collection and Analysis
- Analyze and Interpret Trend Data to Anticipate Cyber Defense Needs
- Review Effectiveness of Existing Security Controls
- Reverse Engineer/Deconstruct Existing Solutions
- Analyze Security Solution Attributes to Ensure They Meet Business Needs
- Conduct a Lessons-Learned/After-Action Report
- Use Judgment to Solve Difficult Problems That Do Not Have a Best Solution
- Review All Key Topics

#### Chapter 14: Assessment Tools and Methods

- Assessment Tool Types
- Assessment Methods
- Review All Key Topics

#### Chapter 15: Business Unit Collaboration

- Interpreting Security Requirements and Goals to Communicate with Stakeholders from Other Disciplines
- Provide Objective Guidance and Impartial Recommendation or Management on Security Processes and Controls
- Establish Effective Collaboration within Teams to Implement Secure Solutions
- IT Governance
- Review All Key Topics

#### Chapter 16: Secure Communication and Collaboration

- Security of Unified Collaboration Tools
- Remote Access
- Mobile Device Management
- Over-the-Air Technologies Concerns
- Review All Key Topics

#### Chapter 17: Security Across the Technology Life Cycle

- End-to-End Solution Ownership
- Systems Development Life Cycle (SDLC)
- Adapt Solutions to Address Emerging Threats and Security Trends
- Asset Management (Inventory Control)
- Review All Key Topics

## Chapter 18: Host, Storage, Network, and Application Integration into a Secure Enterprise Architecture

- Secure Data Flows to Meet Changing Business Needs
- Standards
- Interoperability Issues
- Technical Deployment Models
- Logical and Physical Deployment Diagrams of Relevant Devices
- Secure Infrastructure Design
- Storage Integration (Security Considerations)
- Enterprise Application Integration Enablers
- Review All Key Topics

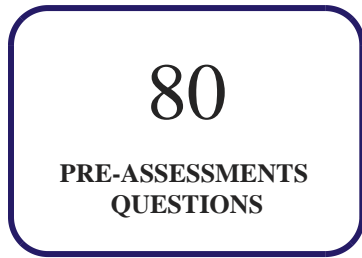
## Chapter 19: Authentication and Authorization Technologies

- Authentication
- Authorization
- Attestation
- Identity Propagation
- Federation
- Advanced Trust Models
- Review All Key Topics

## 9. 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.

## 10. 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.

Have Any Query? We Are Happy To Help!

### GET IN TOUCH:

■ Call: +1-415-763-6300

■ Email: [sales@ucertify.com](mailto:sales@ucertify.com)

■ [www.ucertify.com](http://www.ucertify.com)