uCertify

Course Outline

CISSP Third Edition Pearson uCertify



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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: Security and Risk Management

   Chapter 3: Asset Security

   Chapter 4: Security Architecture and Engineering

   Chapter 5: Communication and Network Security

   Chapter 6: Identity and Access Management (IAM)

   Chapter 7: Security Assessment and Testing

   Chapter 8: Security Operations

   Chapter 9: Software Development Security

   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

Gain hands-on experience to pass the (ISC)² CISSP exam with the CISSP Third edition course and lab. The lab is cloud-based, device-enabled, and can easily be integrated with an LMS. The CISSP training course and lab completely cover all the objectives of the CISSP certification exam and include topics such as information and asset ownership, protect privacy, asset retention, data security controls, and more.

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.



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 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 Goals of the CISSP Certification
- The Value of the CISSP Certification
- The Common Body of Knowledge

- Steps to Becoming a CISSP
- Facts About the CISSP Exam
- About the CISSP Cert Guide, Third Edition

Chapter 2: Security and Risk Management

- Security Terms
- Security Governance Principles
- Compliance
- Legal and Regulatory Issues
- Professional Ethics
- Security Documentation
- Business Continuity
- Personnel Security Policies and Procedures
- Risk Management Concepts
- Geographical Threats
- Threat Modeling
- Security Risks in the Supply Chain
- Security Education, Training, and Awareness

- Review All Key Topics

Chapter 3: Asset Security

- Asset Security Concepts
- Identify and Classify Information and Assets
- Information and Asset Ownership
- Protect Privacy
- Asset Retention
- Data Security Controls
- Information and Asset Handling Requirements
- Review All Key Topics

Chapter 4: Security Architecture and Engineering

- Engineering Processes Using Secure Design Principles
- Security Model Concepts
- System Security Evaluation Models
- Certification and Accreditation
- Control Selection Based upon Systems Security Requirements

- Security Capabilities of Information Systems
- Security Architecture Maintenance
- Vulnerabilities of Security Architectures, Designs, and Solution Elements
- Vulnerabilities in Web-Based Systems
- Vulnerabilities in Mobile Systems
- Vulnerabilities in Embedded Devices
- Cryptography
- Cryptographic Types
- Symmetric Algorithms
- Asymmetric Algorithms
- Public Key Infrastructure
- Key Management Practices
- Message Integrity
- Digital Signatures
- Applied Cryptography
- Cryptanalytic Attacks
- Digital Rights Management
- Site and Facility Design

- Site and Facility Security Controls
- Review All Key Topics

Chapter 5: Communication and Network Security

- Secure Network Design Principles
- IP Networking
- Protocols and Services
- Converged Protocols
- Wireless Networks
- Communications Cryptography
- Secure Network Components
- Secure Communication Channels
- Network Attacks
- Review All Key Topics

Chapter 6: Identity and Access Management (IAM)

- Access Control Process
- Physical and Logical Access to Assets

- Identification and Authentication Concepts
- Identification and Authentication Implementation
- Identity as a Service (IDaaS) Implementation
- Third-Party Identity Services Integration
- Authorization Mechanisms
- Provisioning Life Cycle
- Access Control Threats
- Prevent or Mitigate Access Control Threats
- Review All Key Topics

Chapter 7: Security Assessment and Testing

- Design and Validate Assessment and Testing Strategies
- Conduct Security Control Testing
- Collect Security Process Data
- Analyze and Report Test Outputs
- Conduct or Facilitate Security Audits
- Review All Key Topics

Chapter 8: Security Operations

- Investigations
- Investigation Types
- Logging and Monitoring Activities
- Resource Provisioning
- Security Operations Concepts
- Resource Protection
- Incident Management
- Detective and Preventive Measures
- Patch and Vulnerability Management
- Change Management Processes
- Recovery Strategies
- Disaster Recovery
- Testing Disaster Recovery Plans
- Business Continuity Planning and Exercises
- Physical Security
- Personnel Safety and Security
- Review All Key Topics

Chapter 9: Software Development Security

- Software Development Concepts
- Security in the System and Software Development Life Cycles
- Security Controls in Development
- Assess Software Security Effectiveness
- Security Impact of Acquired Software
- Secure Coding Guidelines and Standards
- Review All Key Topics

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

13	01:52
VIDEOS	HOURS

12. Practice Test

Here's what you get

298	2	300
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

Security and Risk Management

- Setting Up Kerberos Delegation
- Assigning Permissions to Folders
- Taking Incremental Backup
- Taking a Full Backup
- Configuring RAID 5

Asset Security

- Completing the Chain of Custody
- Restricting Local Accounts
- Using Windows Firewall
- Configuring Linux Firewall Using Iptable

Security Architecture and Engineering

- Generating a Symmetric Key
- Generating an Asymmetric Key
- Encrypting the Disk
- Encrypting a File or Folder
- Using OpenSSL to Create a Public/Private Key Pair
- Observing an MD5-Generated Hash Value
- Observing an SHA-Generated Hash Value
- Causing a DarkComet Trojan Infection
- Using the John the Ripper Tool
- Attacking a Website Using XSS Injection
- Conducting a Cross-Site Request Forgery Attack

- Using Social Engineering Techniques to Plan an Attack
- Configuring Audit Group Policy
- Enabling Intrusion Prevention and Detection
- Using Burp Suite

Communication and Network Security

- Configuring VLAN
- Configuring a VPN
- Performing ARP Spoofing
- Setting Up a Honeypot
- Creating ACL (Access Control Lists) in router
- Configuring IPSec
- Configuring Static Routing
- Configuring Dynamic Routing
- Configuring Static NAT
- Configuring Dynamic NAT
- Defending against IP Spoofing
- Performing Session Hijacking Using Burp Suite

Identity and Access Management (IAM)

- Configuring Extended Access Control List
- Configuring User Access Control Settings in Windows
- Creating ACL with Iptables
- Creating a Password Policy in Windows
- Creating a Password Policy in Linux

Security Assessment and Testing

- Reviewing an Authorization Letter for Penetration Testing
- Using nmap for Scanning
- Scanning Ports Using Metasploit
- Exploiting Windows 7 Using Metasploit
- Enabling a Keylogger in a Target Machine

Security Operations

- Conducting Vulnerability Scanning Using Nessus
- Configuring Snort

Software Development Security

- Exploiting a Website Using SQL Injection

Here's what you get

49	49	09:08
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.

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