Certified Information Systems Security Professional (CISSP)

Overview

Welcome to Certified Information Systems Security Professional (CISSP®): With your completion of the prerequisites and necessary years of experience, you are firmly grounded in the knowledge requirements of today's security professional. This course will expand upon your knowledge by addressing the essential elements of the eight domains that comprise a Common Body of Knowledge (CBK®) for information systems security professionals. The course offers a job-related approach to the security process, while providing a framework to prepare for CISSP certification.

CISSP is the premier certification for today's information systems security professional. It remains the premier certification because the sponsoring organization, the International Information Systems Security Certification Consortium, Inc. (ISC)2 ®, regularly updates the test by using subject matter experts (SMEs) to make sure the material and the questions are relevant in today's security environment. By defining eight security domains that comprise a CBK, industry standards for the information systems security professional have been established. The skills and knowledge you gain in this course will help you master the eight CISSP domains and ensure your credibility and success within the information systems security field.

This course may earn a Credly Badge.

Prerequisite Comments

It is highly recommended that students have obtained CompTIA® Network+® or Security+® certifications, or possess equivalent professional experience upon entering CISSP training.

Target Audience

This course is intended for experienced IT security-related practitioners, auditors, consultants, investigators, or instructors, including network or security analysts and engineers, network administrators, information security specialists, and risk management professionals, who are pursuing CISSP training and certification to acquire the credibility and mobility to advance within their current computer security careers or to migrate to a related career. Through the study of all eight CISSP CBK domains, students will validate their knowledge by meeting the necessary preparation requirements to qualify to sit for the CISSP certification exam. Additional CISSP certification requirements include a minimum of five years of direct professional work experience in two or more fields related to the eight CBK security domains, or a college degree and four years of experience.

Course Objectives

In this course, you will identify and reinforce the major security subjects from the eight domains of the (ISC)2 CISSP CBK.

You will:

Analyze components of the Security and Risk Management domain.

Analyze components of the Asset Security domain.

Analyze components of the Security Architecture and Engineering domain.

Analyze components of the Communication and Network Security domain.

Analyze components of the Identity and Access Management domain.

Analyze components of the Security Assessment and Testing domain.

Analyze components of the Security Operations domain.

Analyze components of the Software Development Security domain

Course Outline

1 - Security and Risk Management

Topic A: Security Concepts
Topic B: Security Governance Principles
Topic C: Compliance
Topic D: Professional Ethics
Topic E: Security Documentation
Topic F: Risk Management
Topic G: Threat Modeling
Topic H: Risk Response
Topic I: Business Continuity Plan Fundamentals
Topic J: Acquisition Strategy and Practice
Topic K: Personnel Security Policies
Topic L: Security Awareness and Training

2 - Asset Security

Topic A: Asset Classification
Topic B: Secure Data Handling
Topic C: Resource Provisioning and Protection
Topic D: Manage Data Lifecycle
Topic E: Asset Retention
Topic F: Data Security Control

3 - Security Architecture and Engineering

Topic A: Security in the Engineering Lifecycle
Topic B: System Component Security
Topic C: Security Models
Topic D: Controls and Countermeasures in Enterprise Security
Topic E: Information System Security Capabilities
Topic F: Design and Architecture Vulnerability Mitigation
Topic G: Vulnerability Mitigation in Emerging Technologies
Topic H: Cryptography Concepts
Topic I: Cryptography Techniques
Topic J: Cryptanalytic Attacks
Topic K: Site and Facility Design for Physical Security
Topic L: Physical Security Implementation in Sites and Facilities

4 - Communication and Network Security

Topic A: Network Protocol Security
Topic B: Network Components Security
Topic C: Communication Channel Security
Topic D: Network Attack Mitigation

5 - Identity and Access Management

Topic A: Physical and Logical Access Control
Topic B: Identification and Authentication
Topic C: Identity as a Service
Topic D: Authorization Mechanisms
Topic E: Access Control Attack Mitigation

6 - Security Assessment and Testing

Topic A: System Security Control Testing
Topic B: Software Security Control Testing
Topic C: Security Process Data Collection
Topic D: Audits

7 - Security Operations

Topic A: Security Operations Concepts
Topic B: Change Management
Topic C: Physical Security
Topic D: Personnel Security
Topic E: Detective and Preventive Measures
Topic F: Patch and Vulnerability Management
Topic G: Logging and Monitoring
Topic H: Incident Response
Topic I: Investigations
Topic J: Disaster Recovery Planning
Topic K: Disaster Recovery Strategies
Topic L: Disaster Recovery Implementation

8 - Software Development Security

Topic A: Security Principles in the System Lifecycle
Topic B: Security Principles in the Software Development Lifecycle
Topic C: Security Controls in the Development Environment
Topic D: Database Security in Software Development
Topic E: Software Security Effectiveness Assessment