



Information Technology

Systems Security Certified Practitioner

Course Introduction

This course is designed to provide participants with an in-depth coverage on the skills and concepts in the seven domains of systems security including Access Controls, Security Operations and Administration, Incident Response, Cryptography and Network Security among others. The course will allow participants to gain all the necessary knowledge and skills to prepare and pass the SSCP exam.

Target Audience

- Cloud Computing Engineer
- Computer Network Specialist
- Computer Support Specialist
- Database Administrator
- Information Technology Analyst
- Information Technology Leadership
- Information Security Specialist
- Software/Application Developer
- Web Developer
- Technology sales consultant

Learning Objectives

- Implement authentication mechanisms.
- Document and operate security controls.
- Perform security assessment activities.
- Understand security issues related to networks.

Course Outline

• Day 01

SECURITY OPERATIONS AND ADMINISTRATION

- Change Control/Configuration Management
- Dual Control, Separation of Duties, Rotation of Duties
- Vulnerability Assessment and Pen-Testing

ACCESS CONTROLS

- AAA
- Authentication Methods (Types 1, 2, & 3)
- Authorization - DAC, RBAC, MAC
- Accounting - Logging, Monitoring, Auditing
- Central/Decentralized and Hybrid Management
- Single Sign-On - Kerberos, Radius, Diameter, TACACS
- Vulnerabilities - Emanations, Impersonation, Rouge Infrastructure, Social Engineering

• Day 02

CRYPTOGRAPHY

- Intro/History
- Symmetric
- Asymmetric
- Hashing
- Cryptosystems - SSL, S/MIME, PGP • PKI
- Cryptanalysis

MALICIOUS CODE AND MALWARE

- Layering, Data Hiding, and Abstraction
- Database Security
- AI
- OOD
- Mobil Code
- Malware Architecture Problems - Covert Channels + TOC/TOU, Object Reuse
- Network Vulnerabilities

• Day 03

NETWORKS AND TELECOMMUNICATIONS

- OSI/DoD TCP/IP Models
- TCP/UDP/ICMP/IP
- Ethernet
- Devices - Routers/Switches/Hubs
- Firewalls
- Wireless
- WAN Technologies - X.25/Frame Relay/PPP/ISDN/DSL/Cable
- Voice - PBX/Cell Phones/VOIP
- IPSec

• Day 04

RISK, RESPONSE, AND RECOVERY

- CIA
- Roles and Responsibilities - RACI
- Asset Management
- Taxonomy - Information Classification
- Risk Management
- Policies, Procedures, Standards, Guidelines, Baselines
- Knowledge Transfer - Awareness, Training, Education
- BIA Policy
- BIA Roles and Teams
- Data Backups, Vaulting, Journaling, Shadowing
- Alternate Sites
- Emergency Response
- Required notifications
- BIA Tests

• Day 05

ANALYSIS AND MONITORING

- Ethics - Due Care/Due diligence
- Intellectual Property
- Incident Response
- Forensics
- Evidence
- Laws - HIPAA, GLB, SOX

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 30, 2025	July 4, 2025	5 days	4250.00 \$	UAE - Dubai
Aug. 11, 2025	Aug. 15, 2025	5 days	4950.00 \$	Netherlands - Amsterdam
Oct. 13, 2025	Oct. 17, 2025	5 days	4250.00 \$	UAE - Abu Dhabi