ISC2 Systems Security Certified Practitioner Training

Duration: **5 Day**

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Overview

The official **ISC2 Systems Security Certified Practitioner (SSCP)** training course provides a structured and comprehensive review of the knowledge required to implement, monitor, and administer IT infrastructure in line with organisational information security policies and procedures.

The programme places strong emphasis on maintaining the **confidentiality, integrity, and availability** of data across operational environments. It is aligned with the ISC2 Common Body of Knowledge and is designed to prepare participants for the SSCP certification exam with confidence.

Delivered as a five-day instructor-led course, the programme combines official ISC2 courseware, expert instruction, interactive activities, and practical exercises. Learners develop knowledge across key operational security areas including access control, risk management, incident response, cryptography, network security, and systems and application security.

The course is particularly suitable for hands-on IT and cyber security professionals who want to validate their practical knowledge, strengthen operational capabilities, and progress their security careers.

Prerequisites

There are no formal prerequisites for attending this course.

However, participants will benefit from having some familiarity with:

- General IT concepts,
- Network technologies,
- Fundamental security principles.

A foundation-level certification such as CompTIA Security+ can also be useful, although it is not required.

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Who Should Attend

This course is particularly suitable for professionals with at least one year of cumulative paid work experience in one or more SSCP domains.

Typical participants include:

- Network Security Engineers,
- Systems Administrators,
- Network Administrators,
- Security Analysts,
- Systems Engineers,
- Security Consultants,
- Security Specialists,
- Security Administrators,
- Systems Analysts,
- Network Analysts,
- Database Administrators.

What You Will Learn

By the end of this course, participants will be able to:

- Align Asset Management practices with Risk Management strategies,
- Apply Access Control mechanisms to protect organisational assets,
- Use Cryptographic techniques to secure data and communications,
- Protect software, endpoints, and data across IT environments,
- Design and maintain secure Network and Communication Systems,
- Evaluate Cloud and Wireless Security considerations,
- Implement Security Incident Detection, Response, and Recovery processes,
- Support the continual improvement of organisational Risk Management practices.

Outline

Module 1 – Security Operations and Administration

- Core Security Concepts and Principles
- Asset Management
- Aligning Asset Management with Risk Management
- Identifying Risks, Threats, and Vulnerabilities
- Risk Treatment Strategies
- Applying organisational security policies and procedures

Module 2 – Access Controls

- Access Control Models
- Access Control Mechanisms
- Identity Lifecycle Management

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- Authentication methods
- Authorisation techniques
- Security Policies and Controls
- Managing user and system access securely

Module 3 – Risk Identification, Monitoring and Analysis

- Identifying risks across IT environments
- Risk Assessment
- Monitoring systems for Vulnerabilities and Threats
- Risk Analysis Methodologies
- Risk Monitoring
- Supporting ongoing Risk Management activities

Module 4 – Incident Response and Recovery

- Security Incident Detection
- Incident Response processes
- Incident Response Plans and Procedures
- Supporting Forensic Investigations
- Data Loss Prevention approaches
- Recovery after incidents
- Learning from incidents and improving controls

Module 5 – Cryptography

- Fundamental Cryptographic concepts
- Symmetric Encryption
- Asymmetric Encryption
- Key Management
- Certificate Management
- Cryptographic Protocols
- Applying cryptography to protect communications and data

Module 6 – Network and Communications Security

- OSI Model layers
- Threats associated with different layers
- Securing Network Protocols and Services
- Network Defence Strategies
- Secure Network Design
- Network security best practices
- Network monitoring and controls

Module 7 – Systems and Application Security

- Software Security
- Application Security
- Endpoint Security
- Malware Threats
- Detecting and mitigating malware
- Mobile Device Security
- Virtual Environment Security

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- Data Protection Controls
- Securing systems and application environments

Module 8 – Integrated Security Operations

- Cloud Security practices
- Wireless Security
- Business Continuity Planning
- Disaster Recovery Planning
- Change Management
- Operational Controls
- Security Awareness
- Security Training
- Integrating security operations across the organisation

Hands-On Learning

This programme places strong emphasis on translating theory into practical operational security skills.

Participants work through:

- Structured activities focused on operational security tasks,
- Applied scenarios reflecting realistic security challenges,
- Practical exercises across the SSCP domains,
- Case studies covering Incident Response, Risk Management, and System Security,
- Instructor-led walkthroughs of operational security implementations,
- Peer discussions exploring alternative approaches to security challenges.

This practical approach helps learners apply their knowledge directly within real IT and security environments.

Exams and Assessments

The programme includes a range of assessments designed to reinforce learning and support preparation for the SSCP certification exam.

- Official ISC2 SSCP exam voucher included,
- Exam aligned to the seven domains of the ISC2 Common Body of Knowledge,
- Approximate exam duration of three hours,
- 125 multiple-choice questions,
- Passing score of 700 out of 1000.

By the end of the course, participants should have a clearer understanding of both their strongest areas and the topics that may require additional study.

What's Included

- Expert instruction from an authorised ISC2 instructor,
- Official ISC2 Student Training Guide,
- Content-specific learning activities,
- Applied scenarios,
- Six hands-on case studies,
- End-of-chapter quizzes,

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- Detailed explanations and feedback.