

CISSP

Course Content

Prepare for the most important security certification with superior prep materials and test-taking tips.

If you are ready to take your security career to the next level, our Certified Information Systems Security Professional (CISSP) exam preparation course will help get you there. Get instruction from our experts with real-world experience as you cover all the material you need to prepare for the (ISC)² CISSP exam. Our study guide contains relevant, up-to-date information and includes summary charts, insightful data, and practice exams. Along with our custom course material, you will receive a free copy of McGraw-Hill's CISSP Certification All-in-One Exam Guide, 5th Edition, our CISSP Exam Cram Sheet, and a CISSP certification practice exam you can use to pinpoint your weak areas and improve them during after-class study.

Certification

(ISC)² requires exam candidates to have a minimum of five years of relevant work experience in two or more of the ten domains, four years of work experience with an applicable college degree, or a credential from the (ISC)²-approved list.

The CISSP certification requires successfully passing the CISSP exam (administered by (ISC)²) and having met the experience requirements. After class, we recommend self-study to sharpen your weak areas before taking the exam.

Course Objectives

In-depth coverage of the ten domains required to pass the CISSP exam:

- Operations Security
- Access Control
- Cryptography
- Security Architecture and Design
- Telecommunications and Network Security
- Disaster Recovery and Business Continuity Planning
- Legal, Regulations, Compliance, and Investigations
- Application Security
- Information Security and Risk Management
- Physical (Environmental) Security

Duration

5 days

Prerequisites

Systems administration experience, familiarization with TCP/IP, and an understanding of UNIX, Linux, and Windows. This advanced course also requires intermediate-level knowledge of the security concepts covered in our Security+ Prep Course.

- Security+ Prep Course (SYO-301)
- Security+ Prep Course (SYO-201)

Who Should Attend

IT consultants, managers, security policy writers, privacy officers, information security officers, network administrators, security device administrators, security engineers, and other security professionals whose positions require CISSP certification.

Course Outline

1. Introduction

- Course Overview
- CISSP Candidate Requirements
- CISSP Exam Review

2. Operations Security

- Operation Security Principles, Techniques, and Mechanisms
- Principles and Practices of Good Security
- Resource Protection Mechanisms and Techniques
- Attacks and Prevention Methods

3. Access Control

- Authentication

- Authorization
- Accountability
- Threats to Access Control

4. Cryptography

- History of Cryptography
- Symmetric Encryption
- Asymmetric Encryption
- Hashing and Digital Signatures
- Public Key Infrastructure
- Cryptographic Attacks

5. Security Architecture and Design

- Computer Architecture
- Rings of Protection
- Security Models
- System Evaluation

6. Telecommunications and Network Security

- The OSI Model
- The TCP/IP Model
- WAN Protocols
- Routing
- Wireless Systems
- Fault Tolerance

7. Disaster Recovery and Business Continuity Planning

- Disaster Recovery Planning
- Business Impact Analysis
- Business Continuity Planning
- Backup and Off-Site Facilities
- Testing Contingency Plans

8. Legal, Regulations, Compliance, and Investigations

- Laws and Ethics
- Computer Crime
- Incident Response and Forensics

9. Application Security

- Database Security
- System Development
- Software Development Methods
- Threats and Vulnerabilities

10. Information Security and Risk Management

- Security Management
- Risk Analysis
- Classification Controls

11. Physical (Environmental) Security

- Threats to Physical Security
- Administrative Controls
- Environmental and Safety Controls
- Physical and Technical Controls

12. Test Review and Preparation

- Test Review
- Test Registration
- Test Preparation
- Certification Maintenance