



Western Group (Thailand) Co., Ltd.

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# Certified Information System Security Professional (CISSP) Prep Course

## Course Content

The CISSP has clearly emerged as THE key certification for security professionals. In fact, in an informal survey of information security jobs on a major employment Web site, over 70 percent of the positions required CISSP certification! Corporations are demanding experienced information security professionals with the certifications to prove it to protect their information and assets.

Our course has been prepared with great care to provide the most exhaustive survey of the CISSP information, test taking techniques, and preparation materials available in the industry. While other CISSP courses on the market require extensive reading and practice test preparation between finishing the class and taking the exam, our students have consistently found that the high quality of our course and its in-class practice test result in a minimum of extra time spent preparing for a successful pass of the exam. In today's hectic business conditions, time is of the essence!

## Course Objectives

The CISSP Prep class was developed to meet current demands and the growing needs of the computer industry. This class provides the student with the level of knowledge needed as part of the (ISC)<sup>2</sup> certification requirements for the Certified Information System Security Professional (CISSP) Certification. This certification is rapidly becoming a requirement for employment with security tasks. Students gain a solid background on security concerns, communications, infrastructure, basic cryptography, and operational

## Course Content

### 1. Introduction

- Students & Trainer Introduction
- Who Should Take This Course?
- About (ISC)<sup>2</sup>
- CISSP Certification
- CISSP Examination
- CBK Review, Domain and Function Areas

### 2. Information Security Management

- Introduction
- Information Protection Requirements  
Organization Policy, Roles and Responsibilities
- Security Technology and Tools  
Standards, Baselines, Procedures, Guidelines  
Personnel Security
- Assurance, Trusts and Confidence Mechanism  
Countermeasures and Safeguard Selection Principles
- Information Protection and Management Services  
Information Protection Awareness, Training and Education

### 3. Enterprise Security Architecture

- Introduction
- Information Protection Requirements  
Objectives and Benefits of Enterprise Security Architecture
- Security Technology and Tools  
Enterprise Security Architecture Environment  
Platform  
Security Architectures  
Security Models
- Assurance, Trusts and Confidence Mechanism
- Information Protection and Management Services

### 4. Access Control Systems and Methodology



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- Introduction
- Information Protection Requirements
- Importance of an Access Control Policy
- Information Protection Environment
- Threats Related to Access Control
- Security Technology and Tools
- Technology and Tools in Access Control
- Access to System
  - Identity Management
  - Identification and authentication
  - Access Control Services
  - Technology for Access Control
- Access to Data
- Assurance, Trusts and Confidence Mechanism
- Intrusion Prevention and Detection
- Information Protection and Management Services
- Penetration Testing

#### **5. Application Security**

- Introduction
- Information Protection Requirements
- Information Protection Environment
- Application Environment
  - Database and Data Warehousing Environment
  - Web Application Environment
  - Application Environment Threats
- Security Technology and Tools
  - System Life Cycle
  - Programming Languages
  - Software Protection Mechanisms
  - Database Management and Data Warehousing Controls
  - Web Application Security
- Assurance, Trust and Confidence Mechanisms
- Information Protection and Management Services (IPMS)

#### **6. Operation Security**

- Introduction
- Information Protection Requirements
- Information Protection Environment
- Threats and Elements
- Security Technology and Tools
- Guidelines and Tools
- Assurance, Trusts and Confidence Mechanism
- Configuration, Contingency and Change Management
- Information Protection and Management Services
- Operation System Management and Reviews

#### **7. Cryptography**

- Introduction
- Information Protection Requirements
- Cryptographic Systems
- Applications of Cryptography
- Information Protection Environment
- Methods of Encryption
- Cryptanalysis and Attacks
- Import/Export Issues
- Security Technology and Tools
- Secret Writing Types
- Encryption Schemes
- Symmetric Encryption Systems



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Asymmetric Encryption Systems  
Hybrid Encryption Systems  
Message Integrity Controls  
Digital Signatures

- Assurance, Trusts and Confidence Mechanism  
Certification  
Key Management  
Public Key Infrastructure  
Email Security
- Internet Security
- Information Protection and Management Services

#### **8. Physical Security**

- Introduction
- Information Protection Requirements  
Physical Security
- Information Protection Environment  
Threats and Practices
- Security Technology and Tools  
Physical Security Tools – Elements and Functions
- Assurance, Trusts and Confidence Mechanism  
Testing, Checklists and Maintenance
- Information Protection and Management Services
- Responsibility of the Security Professional

#### **9. Telecommunications, Networks and Internet Security**

- Introduction
- Information Protection Requirements  
Data Networks  
Telephony
- Information Protection Environments  
Remote Access Service  
Network Protocol  
Network Threats and Attacks
- Security Technology and Tools  
Network Access Controls  
Network Availability Technologies  
Internet and Web Security Protocol  
Multimedia Security Technologies
- Assurance, Trusts and Confidence Mechanism
- Information Protection and Management Services

#### **10. Business Continuity and Planning**

- Introduction
- Information Protection Requirements
- Information Protection Environment
- Security Technology and Tools  
Business Continuity Management  
Restoration Action  
Example of a Recovery Process
- Assurance, Trusts and Confidence Mechanism  
Testing and Maintenance
- Information Protection and Management Services

#### **11. Law, Investigation and Ethics**

- Introduction
- Information Protection Requirements
- Information Protection Environment  
Information Security Legal Issues  
Major Legal Systems



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- Intellectual Property Laws
- Privacy Laws
- Legal Liability of Corporate Officers
- Investigation Environment
- Computer Forensics
- Security Technology and Tools
- Legal Security Technology and Tools
- Computer Forensics
- Incident Response and Handling
- Investigation – Interviewing and Interrogation
- Working with Outside Agencies
- Ethics – Action Plan
- Assurance, Trusts and Confidence Mechanism
- Follow-Up
- Ethics – Reviews and Violation Reports
- Information Protection and Management Services
- New Laws and Regulations

#### **Who need to attend**

CISSP certification is beneficial to IT consultants, managers, security policy writers, privacy officers, information security officers, network administrators, security device administrators, and security engineers.