

Certified Information Security Manager (CISM)

Course Introduction

3m

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Domain 01 - Information Security Governance

3hr 48m

Lesson 1: Information Security Governance Overview

Information Security Governance Overview
Importance of Information Security Governance
Outcomes of Information Security Governance

Lesson 2: Effective Information Security Governance

Business Goals and Objectives
Roles and Responsibilities of Senior Management
Governance, Risk Management and Compliance
Business Model for Information Security
Dynamic Interconnections

Lesson 3: Information Security Concepts and Technologies

Information Security Concepts and Technologies
Technologies

Lesson 4: Information Security Manager

Responsibilities
Senior Management Commitment
Obtaining Senior Management Commitment
Establishing Reporting and Communication Channels

Lesson 5: Scope and Charter of Information Security Governance

Assurance Process Integration and Convergence
Convergence

Governance and Third-Party Relationships

Lesson 6: Information Security Governance Metrics

Metrics
Effective Security Metrics
Security Implementation Metrics
Strategic Alignment
Risk Management
Value Delivery
Resource Management
Performance Measurement
Assurance Process Integration/Convergence

Lesson 7: Information Security Strategy Overview

Another View of Strategy

Lesson 8: Creating Information Security Strategy

Information Security Strategy
Common Pitfalls
Objectives of the Information Security Strategy
What is the Goal?
Defining Objectives
Business Linkages
Business Case Development
Business Case Objectives
The Desired State
COBIT
COBIT Controls

COBIT Framework
Capability Maturity Model
Balanced Scorecard
Architectural Approaches
ISO/IEC 27001 and 27002
Risk Objectives

Lesson 9: Determining Current State Of Security

Current Risk

BIA

Lesson 10: Information Security Strategy Development

Elements of a Strategy

The Roadmap

Strategy Resources and Constraints

Lesson 11: Strategy Resources

Policies and Standards

Definitions

Enterprise Information Security Architectures

Controls

Countermeasures

Technologies

Personnel

Organizational Structure

Employee Roles and Responsibilities

Skills

Audits

Compliance Enforcement

Threat Assessment

Vulnerability Assessment

Risk Assessment

Insurance

Business Impact Assessment

Outsourced Security Providers

Lesson 12: Strategy Constraints

Legal and Regulatory Requirements

Physical Constraints

The Security Strategy

Lesson 13: Action Plan to Implement Strategy

Gap Analysis

Policy Development

Standards Development

Training and Awareness

Action Plan Metrics

General Metric Considerations

CMM4 Statements

Objectives for CMM4

Domain 01 Review

Domain 02 - Information Risk Management

2hr 18m

Lesson 1: Risk Management Overview

Types of Risk Analysis

The Importance of Risk Management

Risk Management Outcomes

Risk Management Strategy

Lesson 2: Good Information Security Risk Management

Context and Purpose

Scope and Charter

Assets

Other Risk Management Goals

Roles and Responsibilities

Lesson 3: Information Security Risk Management Concepts

Technologies

Lesson 4: Implementing Risk Management

The Risk Management Framework

The External Environment

The Internal Environment

The Risk Management Context

Risk Analysis

Lesson 5: Risk Assessment

NIST Risk Assessment Methodology

Aggregated or Cascading Risk

Other Risk Assessment Approaches

Identification of Risks

Threats

Vulnerabilities

Risks

Analysis of Relevant Risks

Risk Analysis

Semi-Quantitative Analysis

Quantitative Analysis Example

Evaluation of Risks

Risk Treatment Options

Impact

Lesson 6: Controls Countermeasures

Controls

Residual Risk

Information Resource Valuation

Methods of Valuing Assets

Information Asset Classification

Determining Classification

Impact

Lesson 7: Recovery Time Objectives

Recovery Point Objectives

Service Delivery Objectives

Third-Party Service Providers

Working with Lifecycle Processes

IT System Development

Project Management

Lesson 8: Risk Monitoring and Communication

Risk Monitoring and Communication

Other Communications

Domain 02 Review

Domain 03 - Information Security Program Development

2hr 50m

Lesson 1: Development of Information Security Program

Importance of the Program

Outcomes of Security Program Development

Effective Information Security Program Development

Cross Organizational Responsibilities

Lesson 2: Information Security Program Development Concepts

Technology Resources

Information Security Manager

Lesson 3: Scope and Charter of Information Security Program Development

Assurance Function Integration
Challenges in Developing Information Security Program
Pitfalls
Objectives of the Security Program
Program Goals
The Steps of the Security Program
Defining the Roadmap
Elements of the Roadmap
Gap Analysis

Lesson 4: Information Security Program Resources

Resources
Documentation
Enterprise Architecture
Controls as Strategy Implementation Resources
Common Control Practices
Countermeasures
Technologies
Personnel
Security Awareness
Awareness Topics
Formal Audits
Compliance Enforcement
Project Risk Analysis
Other Actions
Other Organizational Support
Program Budgeting

Lesson 5: Implementing an Information Security Program

Policy Compliance
Standards Compliance
Training and Education
ISACA Control Objectives
Third-party Service Providers
Integration into Lifecycle Processes
Monitoring and Communication
Documentation
The Plan of Action

Lesson 6: Information Infrastructure and Architecture

Managing Complexity
Objectives of Information Security Architectures
Physical and Environmental Controls

Lesson 7: Information Security Program

Information Security Program Deployment Metrics
Metrics
Strategic Alignment
Risk Management
Value Delivery
Resource Management
Assurance Process Integration
Performance Measurement
Security Baselines
Domain 03 Review

Domain 04 - Information Security Program Management

2hr 22m

Lesson 1: Information Security Management Overview

Importance of Security Management
Outcomes of Effective Security Management

Risk Management

Value Delivery

Business Process Assurance

Lesson 2: Organizational Roles and Responsibilities

Information Security Manager Responsibilities

Risk Management Responsibilities

Technology Competencies

Management and Administrative Responsibilities

Board of Directors

Executive Management

Security Steering Committee

Information Technology Unit

Business Unit Manager

Other Business Units

Lesson 3: The Framework for Information Security Management

Technical Components

Operational Components of Security

Management Components of Security

The Administration Components of Security

Other Components

Lesson 4: Measuring Performance

Measuring Risk and Loss

Metrics for Organizational Objectives

Determining Compliance

Measuring Productivity

Other Metrics

Lesson 5: Challenges Facing Information Security

What Is the State of Security Management

The State of Information Security Management

Lesson 6: Resources

Control Best Practices

Control Countermeasures

Other Control Countermeasures

Lesson 7: Other Management Considerations

Implementation of the Security Program Management

Management Metrics and Monitoring

Other Security Monitoring Efforts

The Lifecycle Process

Other Aspects of Monitoring

What Should Be Done About Noncompliance Issues

Domain 04 Review

Domain 05 - Incident Management and Response

2hr 57m

Lesson 1: Responding to the Incident Overview

Responding to the Incident Overview

Response and Management

Incident Response Planning

Importance of Incident Response

Outcomes of the IRP

Lesson 2: Incident Management Concepts

Software Engineering Institute Definitions

Technologies of Incident Response

Incident Management Charter

Lesson 3: The Incident Response Manager

The Objectives of Incident Management

Monitoring and Measuring Incident Management

Alignment
Integration
Other Incident Management Considerations
Lesson 4: What Are Good Incident Management Procedures
The Difficulties of Creating an Incident Management Plan
Lesson 5: Resources for Incident Management
Human Resources
Incident Response Team Organization
IRT Roles and Responsibilities
IRT Roles
IRT Skills
BIA
IRT Capability
Combining the BIA with the IRT
Creating the Incident Response Plan
Response and Recovery Plans
Goals of Recovery Operations
Choosing a Site Selection
Implementing the Strategy
Incident Management Response Teams
Network Service High-availability
Storage High-availability
Risk Transference
Other Response Recovery Plan Options
Lesson 6: Testing Response and Recovery Plans
Periodic Testing
Analyzing Test Results
Measuring the Test Results
Lesson 7: Executing the Plan
Updating the Plan
Intrusion Detection Policies
Who to Notify about an Incident
Recovery Operations
Other Recovery Operations
Forensic Investigation
Hacker / Penetration Methodology
Demo - Vulnerability Scan
Domain 05 Review
Course Closure

Total Duration: 14hrs 19m