

Course Introduction

This course is designed for managements who need to understand the fundamental of Information Technology and security that will help create a competitive edge for their business. Each modules of this course reinforces important principles: What organization can do depends on what their information technology can do and what information technology can do depends on what managers understand the basic and implication of their information technology.

As information technologies mature and become more widespread, the information security is getting more important and complicated. Without proper information security management, the organization will face a risk impacting their business from operational to strategic level. So, this course will also cover good practices used to protect the organization from such risk and at the same time to optimize their information technology to create more business value.

Course Objectives

- Provide comprehensive concept of Information Technology (IT) and Management Information System (MIS)
- Provide comprehensive theory of the Data Networking
- Provide concept of network devices and security devices
- Provide concept of today Operating System (O/S) and Relational Database
- Explain concept of Client/Server application and environment
- Explain concept of web application, web services and web 2.0 environment

Course Highlights

- Free membership for ACIS Alumni
 - Access to the latest information related to the course subjects
 - A life-time class re-sit

Learning Level

- Foundation

Course Duration

- 2 Days (12 Hours)

Prerequisites

- None

Target Group

- New IT Management / Non-IT Management
- New IT auditor / Non-IT auditor

Course Outline

Module 1: Information System and Information Technology

- Information technology in society: history, data, and programs
- The evolution of computer hardware
- Information System and Information Technology trends
- The changing management Process for Security Asset Management

Module 2: Security and Privacy of Information Technology

- IT Strategy and Standards
- Compliance, regulatory and legal issues
- Ethical Issues of the Information Age
- Risks in maintaining data privacy and security
- Controls for security and privacy issues
- Risks and controls
- Auditing security and privacy controls
- Risk assessment, impact and risk management

Module 3: Security of Information Systems Software

- Operating systems and systems software
- What is Application software
- Web Application , Web Services and Web 2.0 Era
- Application Software Risks and Controls
- Change management process in Software Development Life Cycle
- Approaches to Application Software Testing
 - Static/Dynamic Code Analysis
 - Penetration Testing for Application
- Application Software Analysis and Assessment Using Computer-Assisted Audit Tools

Module 4: Managing Data Resources

- Organizing Data in traditional file environment
- A modern Database environment
- Security Database Trends
- Designing Databases and Data Constraints
- Transaction processing systems
- Management requirements for database systems
- Cryptography for Database store and Transmission
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Module 5: The Strategic Role of Information Systems and Information Systems Organization

- Major types of information systems
- Strategic information systems
- Implications for manager and organizations
- Organizations and information systems

Module 6: Telecommunications and the New Information Architecture

- The Telecommunications Revolution
- Types of Telecommunications Networks
- Telecommunications Technologies for Competitive Advantage
- Connectivity and Standards
- Network control issues
- Wireless Network control issues
- E-commerce control issues

Recommended Courses

- ISMF : Introduction and Interpretation of ISO27001:2013
- ITIL : ITIL Foundation
- WDP : Writing & Developing Information Security Policies based on ISO27001
- ISRM : Information Security Risk Management Implementation Using ISO/IEC 27001:2011

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