

Introduction to Information Security (INFOSEC)

Course Syllabus Overview

Duration – 4 days

01. INFOSEC Concepts and Definitions

- Confidentiality
- Integrity
- Availability
- Assets
- Threat
- Vulnerability
- Risk
- Impact
- Policy
- Controls
- Identity
- Authentication
- Authorisation
- Accountability
- Audit
- Compliance
- Information Security
- Information assurance
- Professionalism and ethics
- Information Security Management System (ISMS)
- Standards

02. Information Risk Management

- Threats
- Vulnerabilities
- Assets
- Impact
- Likelihood
- Risk
- Risk management process
- Identification of threats
- Impact analysis and risk assessment
- Treatment of risks
- On-going monitoring of results

03. Framework

- Organisation and responsibilities
- Policy, standards and procedures
- Governance
- Implementation
- Incident management
- Legal aspects
- Standards and procedures

04. People Controls

- Staff
- User Access Controls
- Training and awareness

05. Technical Controls

- Malicious software
- Communications
- External services
- Cloud computing
- IT infrastructure

06. Software

- Testing, audit and review
- Development and support

07. Physical and Environmental Security

- Introduction
- Physical security
- Technical security
- Procedural security
- Protecting equipment
- Uses for Controls
- Employee resignation
- Clear screens and Desks
- Moving property
- Secure disposal

08. Business Continuity

- Planning
- Risk and impact analysis
- Documentation
- Testing
- Standards

09. Investigation

- Common processes, tools, and techniques
- Legal and regulatory guidelines
- Relations with law enforcement
- Third-party forensic services and support

10. Cryptography

- Basic theory
- Symmetric key cryptography
- Asymmetric key cryptography
- Pretty Good Privacy
- Policies for cryptographic use

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