Ministry of Technology, Communication and Innovation

IT Security Unit

INFORMATION SECURITY MANAGEMENT SYSTEM (ISMS)

"Know the RISKS to SECURE better"

IT Security Awareness **Issue 05 - November 2016**

Information Security

Information is one of the most valuable assets of an organization and exists in many forms: printed, electronic.

Information security refers to the protection of information from a wide range of threats so as to preserve its Confidentiality, Integrity and Availability.

Information Security Management System (ISMS)

An ISMS is a management framework, based on a risk management approach, to implement and improve information security.

It allows an organisation to:

- identify potential threats and their impacts to business processes;
- evaluate the degree of risks in several areas, and;
- apply adequate measures for eliminating or minimising those risks.

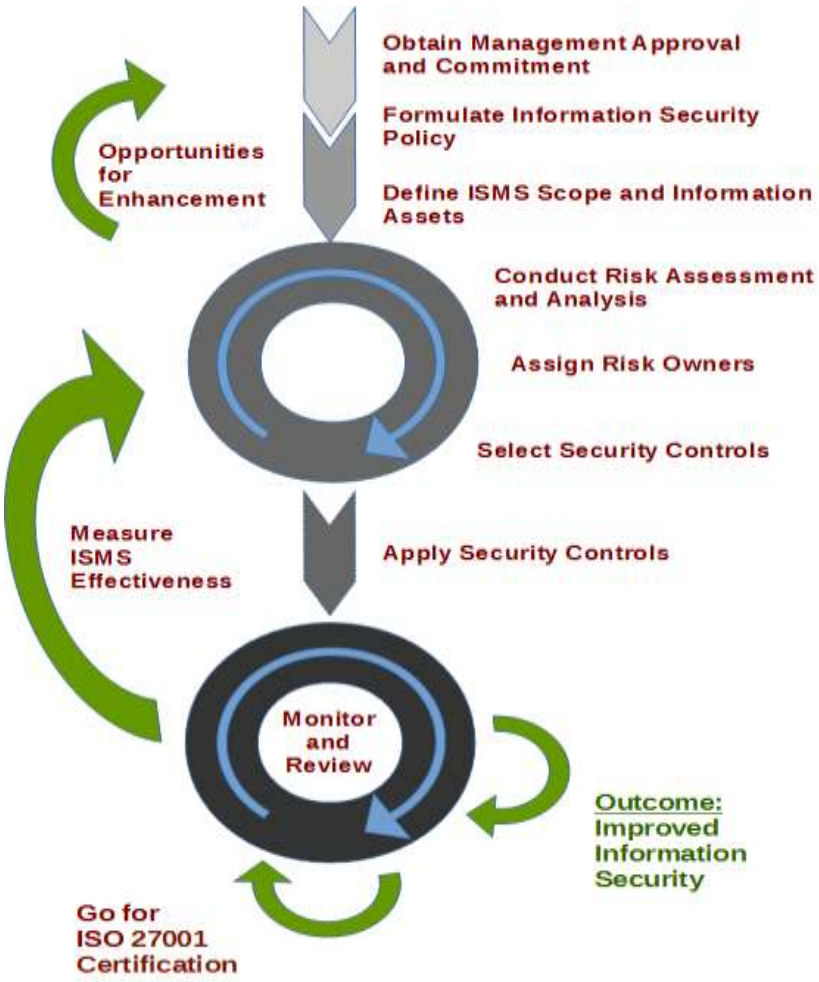
The international standard **ISO/IEC 27001** offers a comprehensive set of measures comprising best practices in information security, risk management and security controls.

For assistance in implementing an ISMS in the Civil Service, contact the IT Security Unit:
Tel. 210-2760 Fax: 212-3660
Email: itsecurity@govmu.org

Benefits of an ISMS

- ✓ Provision of user awareness on security threats and measures
- ✓ Planning of effective business security objectives
- ✓ Promotion of effective risk management
- ✓ Better management of information security incidents
- ✓ Increase in confidence of stakeholders

Steps to implement an ISMS based on ISO 27001



ISO 27001 Security Domains

(Application of Security Controls in different areas of an organization)

Compliance

Application of legal, regulatory and contractual obligations for information security

Information Security Policies

Drafting and reviewing of Security Policies

Organisation of information security

Assignment of security responsibilities in the organisation

Business Continuity

Ensuring information security continuity in the business continuity process

Human resource Security

Application of security prior to employment, during, and at termination of employment

Information Security Incident Management

Management of Information security incidents and improvements

Asset Management

Inventory of assets, information classification and media handling

Supplier Relationship

Security of information assets accessible by suppliers and third parties

Access control

Management of user access controls on systems and information

System Acquisition, Development and Maintenance

Secure acquisition, development and support of Information Systems

Cryptography

Protection of information using data codification

ISO 27001 covers 14 Security Domains

Communications Security

Protection of information during transfer

Physical and Environmental Security

Security of equipment, data and premises

Operations Security

Operational procedures and responsibilities