



ISO 27001 Lead Implementer Certification does not only apply to information security. All the policies and controls under this standard are given to the whole organization. Hence, they can serve all the department

Activities Home - Task

Г	Exercise-0	Your Objective from this course & Exercise			
Г	Exercise-1	Terms & Definitions pertaining to ISO27001			
	Exercise-2	Auditing Information Security Principles			
	Exercise-3	External and Internal Issues – list down the external and internal issues consider you company as case study for ISO27001 implementation.			
	Exercise-4	List down interested parties			
	Exercise-5	Write Scope statement			
	Exercise-6	Write your Information security policy			
	Exercise-7	Draw Organization chart as per your company structure (only to cover information security team & concerned team)			
	Exercise-8	Define Roles and responsibilities as per the organization chart in exercise -7			
	Exercise-9	Risk Assessment and Risk Assessment methodology. Asset base V/s Issue base Risk assessment			
	Exercise-10	Make a list of information asset (Inventory)			
	Exercise-11	Make a list of Risk / Issues as per your organization			
	Exercise-12	List down information security objectives of your organization			
	Exercise-13	Resource and Competence matrix			
	Exercise-14	Resource and Competence matrix			
	Exercise-15	Policy / process doc for Document control			
L	Exercise-16	Define communication Plan /policy			
L	Exercise-17	Risk treatment plan			
L	Exercise-18	Define Internal Audit Schedule			
L	Exercise-19	Internal Audit training			
	Exercise-20	Internal Audit Process			
	Exercise-21	Management Review Process			
	Exercise-22	Corrective action process Management Review Process			
	Exercise-23	Prepare Your own checklist - for Implemention & Audit			
	Exercise-24	Internal Audit template			
	Exercise-25	Non Confirmity Exercise			
	Exercise-26	NC – Template			
	Exercise-27	Final Audit Report - Template			

Clause 5: Leadership

- 5.1 Leadership and commitment
- 5.2 Policy
- 5.3 Organizational roles, responsibility and authorities

5.1 Leadership and Commitment

Top management shall determine and demonstrate commitment by:

- Ensuring information security policy and security objectives are met
- Ensuring resources needed for the information security management system are available
- Communicating the importance of effective information security management
- Promoting continual improvement

5.2 Policy

The management shall establish an information security that:

- Is appropriate to the purpose of the organization
- Includes information security objectives
- It satisfies applicable requirements related to information security
- Display a commitment to continual improvement

The information security policy shall:

- Be available as documented information
- Be communicated within the organization
- Be available to interested parties, as appropriate

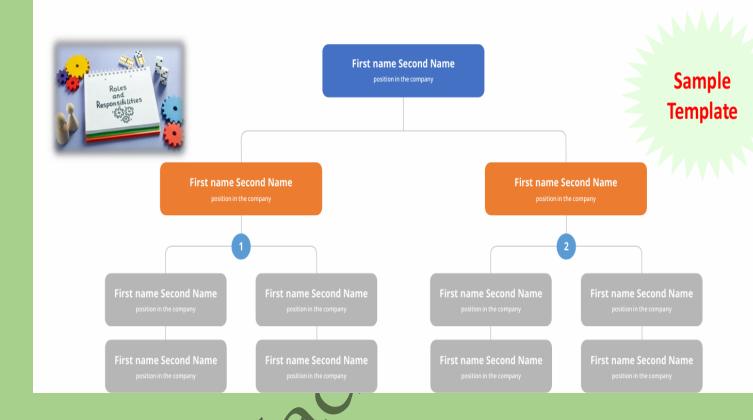


- Write your own information security policy
- Considering your company as a case study for ISO 27001:2022 implementation
- Template sample: https://www.linkedin.com/pulse/example-information-security-policy-iso27001-clause-52-chris-hall/

5.3 Organizational roles, responsibilities and authorities

- If you are given some responsibilities then you need to have authority for you to perform roles effectively
- Roles should be well defined and communicated within the organization
- It is the responsibility of the top management to assign roles to ensure that information security within the organization meets the standard
- If you have been assigned some tasks by the top management, then it is your responsibility to write a report from the activity
- Below is a sample of an Organization Security policy. Note that you should stick to the aspect of information security policy

5.30 rganizational roles, responsibilities and authorities



Exercise 10:

- Draw an organization chart as per your company structure only to cover information security team and concerned team) you can seek help from HR. Department for roles and responsibilities
- Considering your company as a case study for ISO 27001:2022 implementation

Exercise 11:

Define roles and responsibilities as per the organizational chart in exercise - 10

Clause 6: Planning

- 6.1 Actions to address risks and opportunities
- 6.2 Information security risk assessment
- 6.3 Information security objectives and planning to achieve them

6.1 Actions to address risks and opportunities

- When planning for information security management the organization shall consider the issued referred in Sub-CL 4.1 and requirements referred to in Sub-CL 4.2 and determine the risk opportunities that need to be addressed
- The organization shall plan on how to tackle the identified risk opportunities and lay out mitigation protocols

6.2 Information security risk assessment

The management shall establish and maintain information security criteria which includes:

- Risk assessment criteria
- Criteria for performing risk assessment criteria
- Identify risk owners
- Identify the likelihood of consequences if the risks were materialized
- Access the realistic likelihood of the occurrence of the risks identified
- You are first going to identify the risks in Sub-CL 4.1 and Sub-CL 4.2

The 3 magical words in risk assessment:

ISO27001:2022

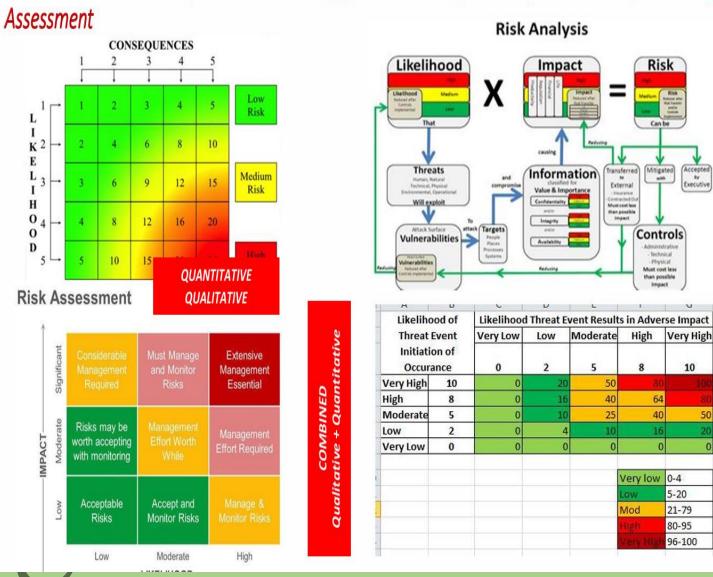
Clause -6 | Planning

6.1.2 Information security risk assessment

	Vulnerability	Threat	Risk
Definition	Weaknesses or gaps in a security program that can be exploited by threats to gain unauthorized access to an asset.	Anything that can exploit a vulnerability, intentionally or accidentally, and obtain, damage, or destroy an asset.	The potential for loss, damage or destruction of an asset as a result of a threat exploiting a vulnerability.

Before doing the risk assessment first, you need to understand the framework of the organization first

First understand the Information Security frame work of the organization before doing



Also, you need to understand the locations

You can categorize the risk assessment in the case of multiprocesses

Scope of ISMS Risk Assessment

ENVIRONMENT RISK

Competitors

Customer Wants

Technological innovation

Sensitivity

Shareholder Expectations

Capital Availability

Sovereign / political

Legal

Regulatory

Industry

Financial Markets

Catastrophic loss

PROCESS RISK

FINANCIAL PRICE

Interest Rate Currency Equity Commodity

Financial Investment

Liquidity Cash Flow

Opportunity Cost Concentration

Credit

Default Concentration Settlement

Collateral

EMPLOYMENT

Leadership Authority /Limit Outstanding Performance Incentives

Change readiness Communications

INFORMATION TECHNOLOGY

Integrity
Access
Outstanding
Availability
Infrastructure

GOVERNANCE

Organizational Culture Ethical Behavior Board Effectiveness Succession Planning

REPUTATION

Image & Branding Stakeholder Relations

INTEGRITY

Management Fraud Employee Fraud Third Party Fraud Illegal Acts Unauthorized Use

OPERATIONS

Customer Satisfaction Human Resources Knowledge Capital Product Development Efficiency Capability

Performance Gap Cycle Time Sourcing Channel Effectiveness Partnering

Stability

Compliance
Business Interruption
Product / Service Failure
Environmental
Health & Safety
Trademark / Brand Erosion

INFORMATION FOR DECISION-MAKING RISK

STRATEGIC

Environmental Sean
Business Module
Business Portfolio
Investment Valuation/Evaluation
Organization Structure
Measurement (Strategy)
Resource Allocation
Planning
Life Cycle

PUBLIC REPORTING

Financial Reporting Valuation
Internal Control Valuation
Executive Certification
Taxation
Pension Fund
Regulatory Reporting

OPERATIONAL

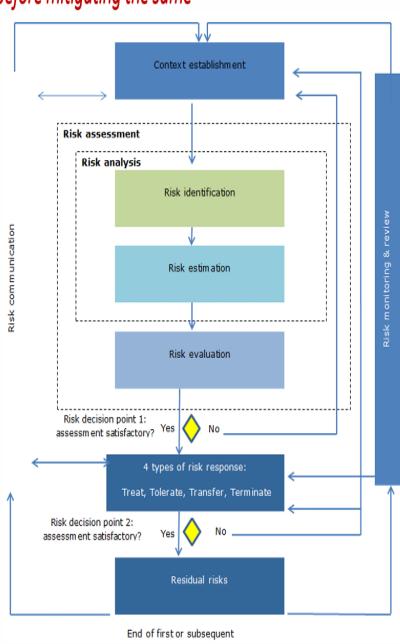
Budget & Planning
Product / Service Pricing
Contract Commitment
Measurement (Operation)
Alignment
Accounting Information

Below is the overall overview of risk identification, analysis and mitigation

Risk Assessment - Vulnerability(s) considered along with existing controls before the Risk Evaluation done to understand the current baseline – before mitigating the same

Overall process of risk identification, risk analysis and risk evaluation and risk mitigation (controls) for the situations & their causes, which contribute to business disruption – C, I & A Separately

Very likely	Medium 2	High 3	Extreme 5
Likely	Low 1	Medium 2	High 3
Unlikely	Low 1	Low 1	Medium 2
What is the chance it will	Minor	Moderate	Major
happen?		Impact	 →

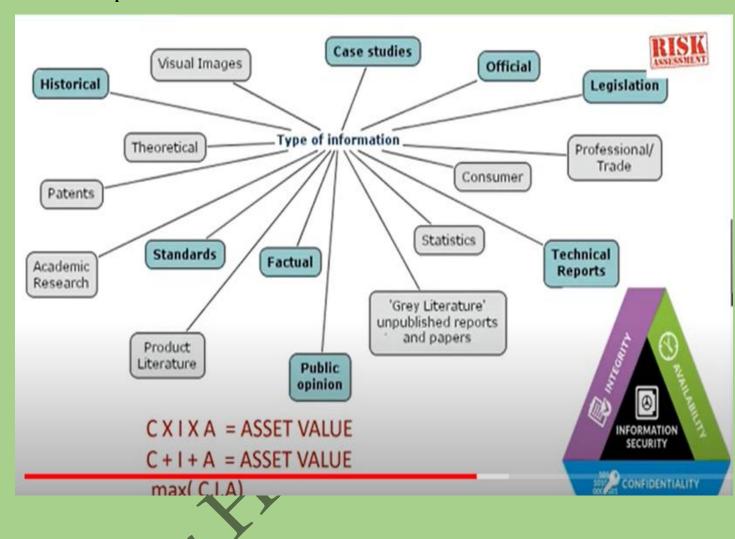


6.1.2 Information security risk assessment

ISO27001:202

Threat	Vulnerability	Asset and consequences	Risk	Solution
System failure — overheating in server room High	Air conditioning system is ten years old. High	Servers. All services (website, email, etc.) will be unavailable for at least 3 hours. Critical	High (potential loss of \$50,000 per occurrence)	Buy a new air conditioner (cost: \$3,000)
Malicious human (interference) — distributed denial-of-service (DDoS) attack High	Firewall configured properly and has good DDOS mitigation.	Website. Website will be unavailable. Critical	Moderate (potential loss of \$5000 per hour of downtime)	Monitor firewall
Natural disaster — flooding <mark>Moderate</mark>	Server room is on the 3 rd floor. Very low	Servers. All services will be unavailable. Critical	Very low	No action needed
Accidental human interference — accidental file deletions High	Permissions are configured properly; IT auditing software is in place; backups are taken regularly.	All files on a file share. Critical data could be lost, but almost certainly could be restored from backup. Moderate	Low	Continue monitor permissions chang privileged users, a backups

Below is a sample of Assets:



Exercise 12

- Write your risk Assessment Methodology
- Considering your company as a case study for ISO 27001:2022 implementation
- It might be either Asset-based or issue-based risk Assessment
- You can only do this exercise after making a list of assets (inventory): Exercise 13

Practical Illustration of doing Risk Assessment

Risk Assessment - It is the process of identifying vulnerabilities and threats to the information resources used by the organization in achieving business objectives and deciding what controls, if any to reduce the risk to an acceptable level, based on the information resource to the organization





My Dream House

King Fort

King Fort

- > Built on a height
- ➤ Has a watch tower surveillance
- > Water with no gates: Creatures
- Walls: Someone can attack before you attack

Dream House

- > Passage is clear
- Windows are glass made of glass can be broken
- > No signs of CCTV cameras
- > The overall objective is to safeguard the assets (Information)
- > Determine the Asset (information value) via critical Asset values
- C + I + A = Asset Value
- $C \times I \times A = Asset Value$
- max (CIA)
- Don't use the same formula (stick to one)

Exercise 13:

- Make a List of Information Asset (Inventory)
- Considering your company as a case study for ISO 27001:2022 implementation

Exercise 14:

- Make a list of risks / issues as per the organization
- Considering your company as a case study for ISO 27001:2022 implementation

Exercise 15:

- List down Information security objectives of your organization
- Considering your company as a case study for ISO 27001:2022 implementation

Services that you can offer:

We Provide exclusive Risk Assessment Services to assist you with implementation of Information Security Practices into your organization



Risk Advisory Services

Third Party Risk Assessment

Gap Assessment Services

Cyber Security Audit & Consultancy Services