



SECURE
THE HUMANS

Domain 1

Security Principles



Certified in
Cybersecurity

An (ISC)[®] Certification

Chapter 1 Agenda

- Module 1: Understand the Concepts of Information Security
- **Module 2: Understand the Risk Management Process**
- Module 3: Understand Security Controls
- Module 4: Understand Governance Elements
- Module 5: Understand (ISC)2 Code of Ethics
- Module 6: Summary and Practice Questions



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- The adverse impacts that would arise if the circumstance or event occurs, and
- the likelihood of occurrence.

$$\text{risk} = \text{likelihood} \times \text{impact}$$



Risk Identification




- Identify risk to protect against it.
 - It is not a one-and-done activity.
 - Risks to communicated clearly.
 - Employees at all levels of the organization are responsible for identifying risk.
-
- Security professionals participate in risk assessment by focusing on:
 - ✓ Needed Security Controls
 - ✓ Risk Monitoring
 - ✓ Planning
 - ✓ Incident Response




Risk Priorities – Risk Analysis

Quantitative Risk Analysis




5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
	1	2	3	4	5


likelihood



Qualitative Risk Analysis



Impact of Risk (Consequence)	Major	Medium	High	Extreme
	Moderate	Medium	Medium	High
	Minor	Low	Medium	Medium
Seriousness of Risk = Probability x Impact		Unlikely (0-33%)	Moderately Likely (33%-66%)	Highly Likely (66%-100%)
		Probability of Risk (Likelihood)		





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