

Domain 1
Security Principles

**SECURE
THE HUMANS**

CCSM

**Certified in
Cybersecurity**

An (ISC)² 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.

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



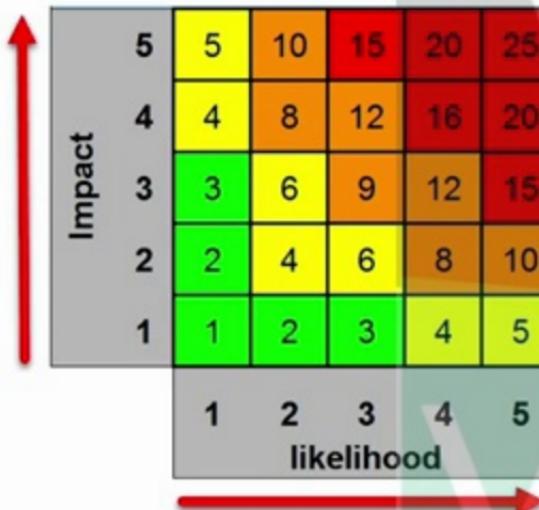
Risk Identification



- 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



Qualitative Risk Analysis

A 4x3 matrix for Qualitative Risk Analysis. The vertical axis is labeled 'Impact of Risk (Consequence)' and the horizontal axis is labeled 'Probability of Risk (Likelihood)'. The matrix cells contain qualitative labels: Major, Medium, High, and Extreme for the first column; and Minor, Low, Medium, and Medium for the second and third columns. A note at the bottom left states: 'Seriousness of Risk = Probability x Impact'.

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



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