Information Security Governance Activities: Security Engineering

- Security engineering formalizes the process for **defining the protection strategy** for the organization and its activities

- It incorporates security principles in the design, development, and operation of the software, systems, solutions, and controls used by an organization

Information Security Governance Activities: Security Operations

- Security operations defines an organization's capability to **detect security events** and provide a **timely response**

- The capability to detect events and provide a timely response depends on the people, processes, and technology supporting the security operations program

People

Processes

Technology

Notes: _____

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Corporate Governance & Security Responsibilities

C|EH

☐ **Every person** and **every role** has responsibilities related to information security. Organizations should define the information security expectations that relate to each role

Board of Directors
- Must have a clear understanding of the organization's needs in terms of the IT system's role in the overall success of the business

Chief Executive Officer (CEO)
- Must support information security initiatives, ensure funding, and hold the business's information security policies and procedures accountable to compliance

Chief Information Officer (CIO)
- Responsible for IT governance and IT service delivery, which support the business processes that drive the organization

Corporate Governance & Security Responsibilities (Cont'd)

C|EH

Chief Risk Officer (CRO)
- Responsible for enterprise risk management, including information security and operational, financial, strategic, reputational, and strategic risks

Chief Technology Officer (CTO)
- Responsible for system administrators and provides the direct link between information security policies and the network, systems, and data

Enterprise Architect
- Has a broad and deep understanding of the organization's overall business strategy and the general IT trends and directions

Enterprise Administrators
- Play an important part in the protection of the organization's assets

Database Administrators
- Manage and maintain database repositories for proper use by authorized individuals

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