

5.0 Governance, Risk, and Compliance

- 5.1 Compare and contrast various types of controls.
 - Category
 - Managerial
 - Operational
 - Technical

- Control type
 - Preventive
 - Detective
 - Corrective

- Deterrent
- Compensating
- Physical
- Explain the importance of applicable regulations, standards, or frameworks that impact organizational security posture.
 - · Regulations, standards, and legislation
 - General Data Protection Regulation (GDPR)
 - National, territory, or state laws
 - Payment Card Industry Data Security Standard (PCI DSS)
 - Key frameworks
 - Center for Internet Security (CIS)
 - National Institute of Standards
- and Technology (NIST) Risk Management Framework (RMF)/ Cybersecurity Framework (CSF)
- International Organization for Standardization (ISO) 27001/27002/27701/31000
- SSAE SOC 2 Type I/II
- Cloud security alliance

- Cloud control matrix
- Reference architecture
- Benchmarks/secure configuration guides
 - Platform/vendor-specific guides
 - Web server
 - OS
 - Application server
 - Network infrastructure devices
- Explain the importance of policies to organizational security.
 - Personnel
 - Acceptable use policy
 - Job rotation
 - Mandatory vacation
 - Separation of duties
 - Least privilege
 - Clean desk space
 - Background checks
 - Non-disclosure agreement (NDA)
 - Social media analysis
 - Onboarding
 - Offboarding
 - User training
 - Gamification
 - Capture the flag
 - Phishing campaigns
 - Phishing simulations

- Computer-based training (CBT)
- Role-based training
- · Diversity of training techniques
- · Third-party risk management
 - Vendors
 - Supply chain
 - Business partners
 - Service level agreement (SLA)
 - Memorandum of understanding (MOU)
 - Measurement systems analysis (MSA)
 - Business partnership agreement (BPA)
 - End of life (EOL)
 - End of service life (EOSL)
 - NDA

- Data
 - Classification
 - Governance
 - Retention
- Credential policies
 - Personnel
 - Third-party
 - Devices
 - Service accounts
 - Administrator/root accounts
- Organizational policies
 - Change management
 - Change control
 - Asset management





54 Summarize risk management processes and concepts.

- Risk types
 - External
 - Internal
 - Legacy systems
 - Multiparty
 - IP theft
 - Software compliance/licensing
- · Risk management strategies
 - Acceptance
 - Avoidance
 - Transference
 - Cybersecurity insurance
 - Mitigation
- · Risk analysis
 - Risk register
 - Risk matrix/heat map
 - Risk control assessment

- Risk control self-assessment
- Risk awareness
- Inherent risk
- Residual risk
- Control risk
- Risk appetite
- Regulations that affect risk posture
- Risk assessment types
 - Qualitative
 - Ouantitative
- Likelihood of occurrence
- Impact
- Asset value
- Single-loss expectancy (SLE)
- Annualized loss expectancy (ALE)
- Annualized rate of occurrence (ARO)

- Disasters
 - Environmental
 - Person-made
 - Internal vs. external
- · Business impact analysis
 - Recovery time objective (RTO)
 - Recovery point objective (RPO)
 - Mean time to repair (MTTR)
 - Mean time between failures (MTBF)
 - Functional recovery plans
 - Single point of failure
 - Disaster recovery plan (DRP)
 - Mission essential functions
 - Identification of critical systems
 - Site risk assessment

Explain privacy and sensitive data concepts in relation to security.

- Organizational consequences of privacy and data breaches
 - Reputation damage
 - Identity theft
 - Fines
 - IP theft
- Notifications of breaches
 - Escalation
 - Public notifications and disclosures
- Data types
 - Classifications
 - Public
 - Private
 - Sensitive
 - Confidential
 - Critical
 - Proprietary

- Personally identifiable information (PII)
- Health information
- Financial information
- Government data
- Customer data
- · Privacy enhancing technologies
 - Data minimization
 - Data masking
 - Tokenization
 - Anonymization
 - Pseudo-anonymization
- Roles and responsibilities
 - Data owners
 - Data controller
 - Data processor
 - Data custodian/steward
 - Data protection officer (DPO)

- · Information life cycle
- · Impact assessment
- Terms of agreement
- Privacy notice