



5.0 Risk Management

5.1 Explain the importance of policies, plans and procedures related to organizational security.

- **Standard operating procedure**
- **Agreement types**
 - BPA
 - SLA
 - ISA
 - MOU/MOA
- **Personnel management**
 - Mandatory vacations
 - Job rotation
 - Separation of duties
- Clean desk
- Background checks
- Exit interviews
- Role-based awareness training
 - Data owner
 - System administrator
 - System owner
 - User
 - Privileged user
 - Executive user
- NDA
- Onboarding
- Continuing education
- Acceptable use policy/rules of behavior
- Adverse actions
- **General security policies**
 - Social media networks/applications
 - Personal email

5.2 Summarize business impact analysis concepts.

- RTO/RPO
- MTBF
- MTTR
- Mission-essential functions
- Identification of critical systems
- **Single point of failure**
- **Impact**
 - Life
 - Property
 - Safety
- Finance
- Reputation
- **Privacy impact assessment**
- **Privacy threshold assessment**

5.3 Explain risk management processes and concepts.

- **Threat assessment**
 - Environmental
 - Manmade
 - Internal vs. external
- **Risk assessment**
 - SLE
 - ALE
 - ARO
 - Asset value
 - Risk register
- Likelihood of occurrence
- Supply chain assessment
- Impact
 - Quantitative
 - Qualitative
- Testing
 - Penetration testing authorization
 - Vulnerability testing authorization
- Risk response techniques
 - Accept
 - Transfer
 - Avoid
 - Mitigate
- **Change management**



5.4 Given a scenario, follow incident response procedures.

- **Incident response plan**
 - Documented incident types/category definitions
 - Roles and responsibilities
 - Reporting requirements/escalation
- **Incident response process**
 - Preparation
 - Identification
- **Cyber-incident response teams**
 - Exercise
- **Containment**
 - Eradication
 - Recovery
 - Lessons learned

5.5 Summarize basic concepts of forensics.

- **Order of volatility**
- **Chain of custody**
- **Legal hold**
- **Data acquisition**
 - Capture system image
 - Network traffic and logs
- **Capture video**
- **Record time offset**
- **Take hashes**
- **Screenshots**
- **Witness interviews**
- **Preservation**
- **Recovery**
- **Strategic intelligence/counterintelligence gathering**
 - Active logging
- **Track man-hours**

5.6 Explain disaster recovery and continuity of operation concepts.

- **Recovery sites**
 - Hot site
 - Warm site
 - Cold site
- **Order of restoration**
- **Backup concepts**
 - Differential
 - Incremental
- **Snapshots**
- **Full**
- **Geographic considerations**
 - Off-site backups
 - Distance
 - Location selection
 - Legal implications
 - Data sovereignty
- **Continuity of operation planning**
 - Exercises/tabletop
 - After-action reports
 - Failover
 - Alternate processing sites
 - Alternate business practices

5.7 Compare and contrast various types of controls.

- **Deterrent**
- **Preventive**
- **Detective**
- **Corrective**
- **Compensating**
- **Technical**
- **Administrative**
- **Physical**

5.8 Given a scenario, carry out data security and privacy practices.

- **Data destruction and media sanitization**
 - Burning
 - Shredding
 - Pulping
 - Pulverizing
 - Degaussing
 - Purging
 - Wiping
- **Data sensitivity labeling and handling**
 - Confidential
 - Private
 - Public
 - Proprietary
 - PII
 - PHI
- **Data roles**
 - Owner
 - Steward/custodian
 - Privacy officer
- **Data retention**
- **Legal and compliance**