Information Systems Security Management Professional

Zetlan Technologies

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Online Course

Course Modules

Leadership and Business Management

1.Establish security’s role in organizational culture, vision

- Define information security program vision and mission
- Align security with organizational goals, objectives and values
- Define security’s relationship to the overall business processes
- Define the relationship betwn organizational culture & security

2.Align security program with organizational governance

- Identify and navigate organizational governance structure
- Validate roles of key stakeholders
- Validate sources and boundaries of authorization
- Advocate &obtain organizational support for security initiatives

3. Define and implement information security strategies

- Identify security requirements from business initiatives
- Evaluate capacity & capability to implement security strategies
- Manage implementation of security strategies
- Review and maintain security strategies
- Prescribe security architecture & engineering theories, concepts

4.Define & Maintain security policy framework Determine app

- Determine applicable external standards
- Determine data classification and protection requirements
- Establish internal policies
- Advocate and obtain organizational support for policies
- Develop procedures, standards, guidelines and baselines
- Ensure periodic review of security policy framework

5.Manage security requirements in contracts and agreements

- Evaluate service management agreements (e.g., risk, financial)
- Govern managed services (e.g., infrastructure, cloud services)
- Mng impact of organizational change (e.g.,mergers & acquisitn)
- Ensure that appropriate regulatory compliance statements
- Monitor and enforce compliance with contractual agreements

6.Manage security awareness and training programs

- Promote security programs to key stakeholders
- Identify needs & implement training programs by target sgmnt
- Monitor & report on effectivens of security awareness & traing

7. Define, measure and report security metrics

- Identify Key Performance Indicators (KPI)
- Associate Key Performance Indicators (KPI) to the risk posture
- Use metrics to drive security program development & operatns

8. Prepare, obtain and administer security budget

- Prepare and secure annual budget
- Adjust budget based on evolving risks and threat landscape
- Manage and report financial responsibilities

9. Manage security programs

- Define roles and responsibilities
- Determine and manage team accountability
- Build cross-functional relationships
- Resolve conflicts between security and other stakeholders
- Identify communication bottlenecks and barriers
- Integrate security controls into human resources processes

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10.Apply product development and project management

- Incorporate security into project lifecycle
- Identify & apply appropriate project management methodolgy
- Analyze project time, scope and cost relationship

Systems Lifecycle Management

11.Manage integration of security into Systems Development

- Integrate info security gates (decision points) and requirements
- Implement security controls into system lifecycle
- Oversee security configuration management (CM) processes

12.Integrate new business initiatives & emerging technologies

- Integrate security into new business initiatives & emerging tech
- Address impact of new business initiatives on security posture

13.Define comprehensive vulnerability management programs

- Identify, classify & prioritize assets, systems & services based
- Prioritize threats and vulnerabilities
- Manage security testing
- Manage mitigation / remediatn of vulnerabilities based on risk

14. Manage security aspects of change control

- Integrate security requirements with change control process
- Identify and coordinate with the stakeholders
- Manage documentation and tracking
- Ensure policy compliance (e.g., continuous monitoring)

Risk Management

15. Develop and manage a risk management program

- Identify risk management program objectives
- Communicate and agree on risk management objectives
- Determine scope of organizational risk program
- Identify organizational security risk tolerance/appetite
- Obtain and verify organizational asset inventory
- Analyze organizational risks
- Determine countermeasures, compensating & mitigating ctrls
- Perform cost-benefit analysis (CBA) of risk treatment options

16. Conduct risk assessments

- Identify risk factors

17. Manage security risks within the supply chain

- Identify supply chain security risk requirements
- Integrate supply chain securty risks into orgnzatnal risk mngmt
- Validate security risk control within the supply chain
- Monitor and review the supply chain security risks

Threat Intelligence and Incident Management

18. Establish and maintain threat intelligence program

- Aggregate threat data from multiple threat intelligence sources
- Conduct baseline analysis of ntwrk traffic, data & user behavior
- Detect & analyze anomalous behavior patterns for potential
- Conduct threat modeling
- Identify and categorize an attack
- Correlate related security event and threat data
- Create actionable alerting to appropriate resources

19. Establish and maintain incident handling and investigation

- Develop program documentation
- Establish incident response case management process
- Establish incident response team
- Apply incident management methodologies
- Establish and maintain incident handling process
- Establish and maintain investigation process
- Quantify and report financial & operational impact of incidents
- Conduct root cause analysis (RCA)

Contingency Management

20. Facilitate development of contingency plans

- Identify & analyze factors related to the Continuity of Operatns
- Identify and analyze factors related to the business continuity
- Identify and analyze factors related to the disaster recovery plan
- Coordinate contingency mngmnt plans with key stakeholders
- Define internal and external crisis communications plans
- Define and communicate contingency roles and responsibilities
- Identify and analyze contingency impact on business processes
- Manage third-party contingency dependencies
- Prepare security management succession plan

21. Develop recovery strategies

- Identify and analyze alternatives
- Recommend and coordinate recovery strategies
- Assign recovery roles and responsibilities

22. Contingency plan, Continuity of Operations Plan (COOP), business continuity plan (BCP) & disaster recovery plan (DRP)

- Plan testing, evaluation and modification
- Determine survivability and resiliency capabilities
- Manage plan update process

23. Manage disaster response and recovery process

- Declare disaster
- Implement plan
- Restore normal operations
- Gather lessons learned
- Update plan based on lessons learned

Law, Ethics and Security Compliance Management

24. Impact of laws and regulations that relate to info security

- Identify applicable privacy laws
- Identify legal jurisdictions the organization and users operate
- Identify export laws
- Identify intellectual property (IP) laws
- Identify applicable industry regulations
- Identify and advise on non-compliance risks

Adhere to the (ISC)2 Code of Ethics as related to management

25. Validate compliance in accordance with applicable laws

- Inform and advise senior management
- Evaluate and select compliance framework(s)
- Implement the compliance framework(s) & Compliance metrics

26. Coordinate with auditors and regulators in support

- Plan
- Schedule
- Coordinate audit activities
- Evaluate and validate findings
- Formulate response
- Validate implemented mitigation and remediation actions

27. Document and manage compliance exceptions

- Identify and document compensating controls & workarounds
- Report and obtain authorized approval of risk waiver

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