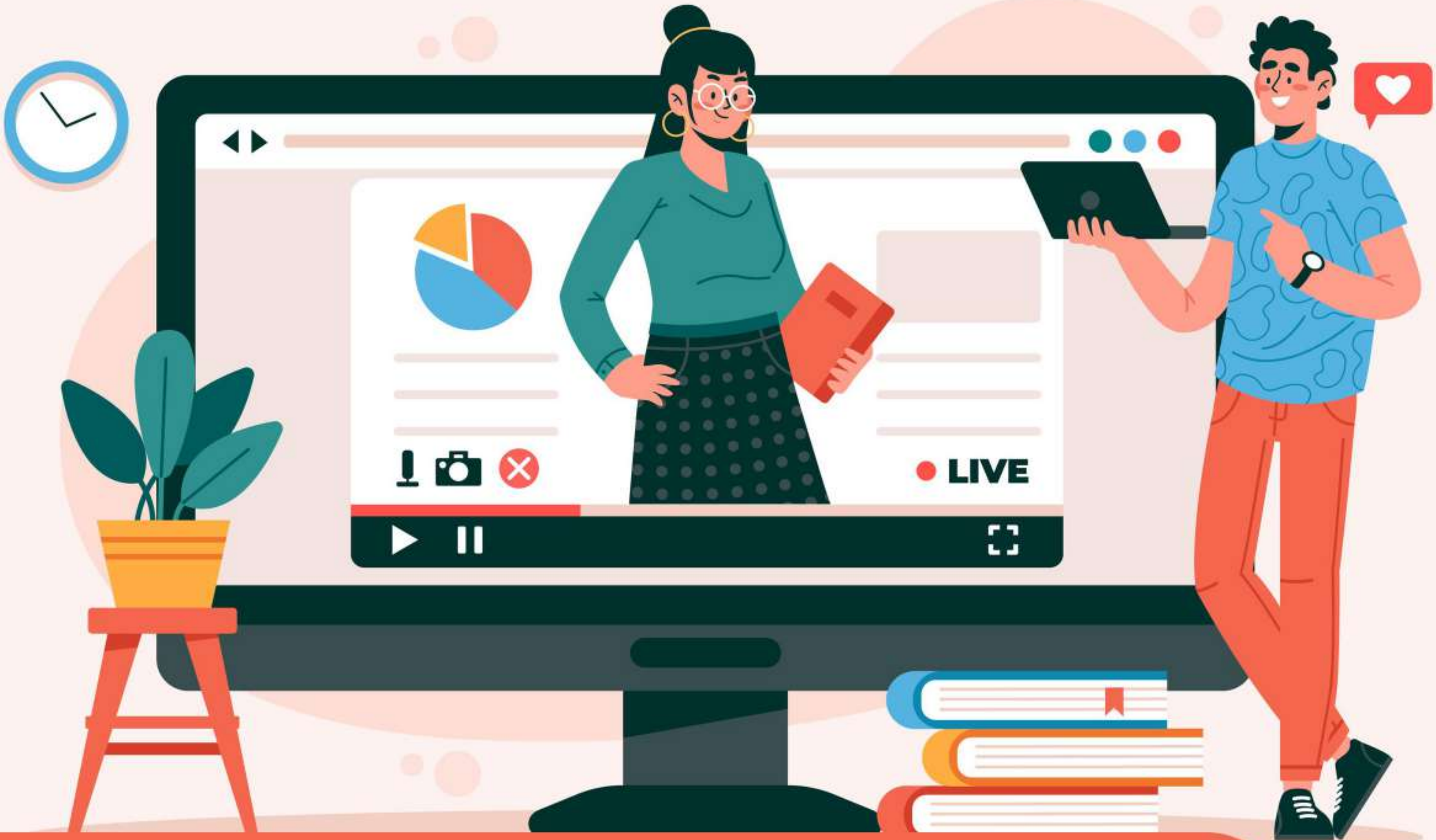
Certified Chief Information Security Officer (CCISO)

Zetlan Technologies



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Online Course

ZETLAN TECHNOLOGIES
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Course Modules

1. **Governance**
    - Define, implement, manage and maintain an info security gvrnanc
    - Align info security governance framework with organizational
    - Establish information security management structure.
    - Establish a framework for info security governance monitoring
    - Understd standards, procedures, directives, policies, regulations
    - Understand the enterprise info security compliance program
    - Analyze all the external laws, regulatns, standards, & best practic
    - Understd the various provisns of the laws that affct the organzatn
    - Mngmnt Act, Clinger-Cohen Act, Privacy Act, Sarbanes-Oxley, etc.
    - Be familiar with the different standards such as ISO 27000 series
    - Understand the federal and organization specific published doc
    - Assess the major enterprise risk factors for compliance.
    - Coordinate the app of info security strategies, plans, policies
    - Understand the importance of regulatory information security
    - Understand the info security changes, trends, & best practices.
    - Manage enterprise compliance program controls.
    - Understand the info security compliance process & procedures.
    - Compile, analyze, and report compliance programs.
    - Understand the compliance auditing and certification programs.
    - Follow organizational ethics.

2. Management Controls and Auditing Management

- Identify the organization’s operational process and objectives
- Design info systems controls in alignment with the optnal needs
- Identify & select the resources required to effectively implement
- Supervise the information systems control process to ensure time
- Design and implement information systems controls to mitigat
- Design and conduct testing of information security controls
- Design processes to appropriately remediate deficiencies & evalt
- Assess and implement tools and techniques to automate info
- Produce information systems control status reports

3. Auditing Management

- Undstd the IT audit process and be familiar with IT audit standrds.
- Apply information systems audit principles, skills and techniques
- Execute the audit process in accordance with established stadrds
- Effectively evaluate audit results, weighg the relevancy, accuracy
- Assess the exposures resulting from ineffective or missing control
- Develop an IT audit documentation process and share reports
- Ensure that the necessary changes based on the audit findings

4. Management Projects and Operations

- For each info systms project develop a clear project scope statmt
- Define activities needed to successfully execute the info systems
- Develop, manage and monitor the info systems program budget
- Identify, negotiate, acquire and manage the resources needed
- Acquire, develop and manage information security project team.
- Assign clear info securty personnel job functions & provide contns
- Direct information security personnel and establish communcatns
- Resolve personnel & teamwork issues within time, cost, & quality .
- Identify, negotiate & manage vendor agreement & communicatn.
- Participate with vendors & stakeholders to review/assess rcomnd
- Evaluate the project management practices and controls
- Develop a plan to continuously measure the effectiveness of info
- Identify stakeholders, manage stakeholders' expectations
- Ensure that necessary changes and improvements to the info.

Information Security Core Competence

5. Access Control

- Identify the criteria for mandatory & discretionary access control
- Implement and manage an access control plan in alignment
- Different access control systems such as ID cards and biometrics.
- Understand the importance of warning banners for implementing
- Develop procedures to ensure systm users are aware of their IA

6. Social Engineering, Phishing Attacks, Identity Theft

- Understand various social engineering concepts and their role
- Design a response plan to identity theft incidences.
- Identify and design a plan to overcome phishing attacks.

7. Physical Security

- Identify standards, procedures, directives, policies, regulations
- Determine the value of physical assets & the impact if unavailable.
- Resources needed to effectively implemnt a physical security plan.
- Design, implement & manage a coherent, coordinated, & holistic
- Establish objectives for personnel security to ensure alignment
- Design and manage the physical security audit and update issues.
- Establish a physical security performance measurement system.

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8. Risk Management

- Risk mitigation & risk treatment processes & understand concept
- Identify resource requrmnts for risk management plan implemnt
- Design a systematic & structured risk assessment process
- Develop, coordinate and manage risk management teams.
- Establish relationships between the incident response team
- Develop an incident mngmnt measurement program and manag
- Understand the residual risk in the information infrastructure.
- Assess threats & vulnerabilities to identify security risks, & regulrly
- Identify changes to risk management policies and processes
- Determine if security controls & processes are adequately intgrtd

9. Disaster Recovery and Business Continuity Planning

- Develop, implement & monitor business continuity plans in case
- Define the scope of the enterprise continuity of operatns progrm
- Resourcs & roles of difft stakeholders in busins continuity prgrms.
- Identify and prioritize critical business functions and consequently
- Direct contingency planning, operatns, & programs to mange risk.
- Understand the importance of lessons learned from test, training
- Design documentation process as part of the continuity of opratn
- Design and execute a testing and updating plan for the continuity
- Understd the importance of integration of IA requirements COOP
- Measures to increase the level of emergncy preparedness

10. Firewall, IDS/IPS and Network Defense Systems

- Identify the appropriate intrusion detection & prevention systems
- Design a program to monitor firewalls & identify firewall config
- Understand perimeter defense systems such as grid sensors
- Identify the basic network architecture, models, protocols
- Understand the concept of network segmentation.
- Manage DMZs, VPN & telecomm technologies such as PBX & VoIP.
- Identify network vulnerabilities and explore network security
- Support, monitor, test, & tshoot issues wth hardware & software.
- Manage accounts, network rights, & access to systems & equipmt

11. Wireless Security

- Identify vulnerability and attacks associated with wireless netwrks

12. Virus, Trojans and Malware Threats

- Assess the threat of virus, Trojan & malware to organizatial scurty
- Deploy and manage anti-virus systems.
- Develop process to counter virus, Trojan, and malware threats.

13. Secure Coding Best Practices and Securing Web Applications

- Develop & maintain software assurance programs in alignment
- Understand various system-engineering practices.
- Configure and run tools that help in developing secure programs.
- Understand the software vulnerability analysis techniques.
- Install and operate the IT systems in a test configuration manner
- Identify web application vulnerabilities and attacks and web app

14. Hardening OS

- Identify various OS vulnerabilities and attacks & develop a plan
- Understand system logs, patch management process and config

15. Encryption Technologies

- Understand the concept of encryption & decryptn, digital certifct
- Identify the different components of a cryptosystem.
- Develop a plan for information security encryption techniques.

16. Vulnerability Assessment and Penetration Testing

- Design, develop & implement a penetration testing program basd
- Identify different vulnerabilities associated with info systems
- Develop pre and post testing procedures.
- Develop a plan for pen test reporting and implementation
- Develop vulnerability management systems

17. Computer Forensics and Incident Response

- Develop a plan to identify a potential security violation
- Comply with system termination procedures & incident reporting
- Assess potential security violatns to determine the netwrk securty
- Diagnose and resolve IA prblms in response to reported incidnts.
- Design incident response procedures.
- Develop guidelines to determine whether a security incident
- Identify the volatile and persistent system information.
- Understand various digital media devices, e-discovery principles
- Develop and manage an organizational digital forensic program.
- Establish, develop and manage forensic investigation teams.
- Design investigation processes such as evidence collection
- Identify the best prctics to acquire, store & procss digital evidnce.
- Configure and use various forensic investigation tools.
- Design anti-forensic techniques.

Strategic Planning and Finance

18. Strategic Planning

- Design, develop & maintain enterprise info security architecture
- Perform external analysis of the organization
- Identify & consult with key stakeholders to ensure understanding
- Define a forward-looking, visionary and innovative strategic plan
- Define key performance indicators and measure effectiveness
- Assess and adjust IT investments to ensure they are on track
- Monitor & update activities to ensure accountability & progress.

19. Finance

- Analyze, forecast & develop the operatnal budget of the IT dptmt.
- Acquire and manage the necessary resources for implementation
- Allocate financial resources to projects, processes & units within
- Monitor and oversee cost management of information security
- Identify and report financial metrics to stakeholders.
- Balance the IT security investment portfolio based on EISA
- Understand the acquisition life cycle & determine the importance
- Different procurement strategies & understand the importance
- Understand the basic procurement concepts such as Statement
- Collaborate with various stakeholders(which may internal client)
- Ensure the inclusion of risk-based IT security requirements
- Design vendor selection process and management policy.
- Develop contract administration policies that direct the evaluatn
- Develop measures and reporting standards to measure & report
- Understand the IA security requirements to be included in statmt

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