Domains	Sub Domain	Description	Number of Questions	Weightage
1. Governance, Risk, Compliance	Risk Management	 Define, implement, manage and maintain an information security governance program that includes leadership, organizational structures, and processes. Align information security governance framework with organizational goals and governance, i.e., leadership style, philosophy, values, standards, and policies. Establish information security management structure. Establish a framework for information security governance monitoring (considering cost/benefits analyses of controls and ROI). Understand standards, procedures, directives, policies, regulations, and legal issues that affect the information security program. Understand the enterprise information security compliance program and manage the compliance team. Create a risk management program policy and charter 	11	21%
		 Create a risk assessment methodology and framework Create and manage risk register Create risk assessment schedule and check lists Create risk reporting metrics and processes 		
	Compliance	 Analyze and understand common external laws, regulations, standards, best practices applicable to the organization, and organizational ethics. Be familiar with international security and risk standards such as ISO 27000 and 31000 series Implement and manage information security strategies, plans, policies, and procedures to reduce regulatory risk Understand the importance of regulatory information security organizations and appropriate industry groups and stakeholders Understand information security changes, trends, and best practices Understand and manage enterprise compliance program controls, information security compliance process and procedures, 	10	

		 compliance auditing, and certification programs Understand the information security compliance process and procedures Compile, analyze, and report compliance programs Understand the compliance auditing and cortication programs Follow organizational ethics 		2001
2. Information Security Controls and Audit Management	Information Security Management Controls	 Identify the organization's operational process and objectives Design information systems controls in alignment with the operational needs and goals and conduct testing prior to implementation to ensure effectiveness Identify and select the resources required to effectively implement and maintain information systems controls. Such resources can include human capital, information, infrastructure, and architecture (e.g., platforms, operating systems, networks, databases, applications) Design and implement information systems controls to mitigate risk. Monitor and document the information systems control performance in meeting organizational objectives by identifying and measuring metrics and key performance indicators Design and conduct testing of information security controls to ensure effectiveness, discover deficiencies, and ensure alignment with the organization's risk management program Design and implement processes to appropriately remediate deficiencies and evaluate problem management practices to ensure that errors are recorded, analyzed, and resolved in a timely manner Assess and implement tools and techniques to automate information systems control processes. Measure, manage, and report on security control implementation and effectiveness 	16	20%
	Audit Management	 Understand the IT audit process and be familiar with IT audit standards Apply information systems audit principles, skills and techniques in reviewing and testing 	14	

3. Security Program Management & Operations	Security Program Management	 information systems technology and applications to design and implement a thorough risk-based IT audit strategy Execute the audit process in accordance with established standards and interpret results against defined criteria to ensure that the information systems are protected, controlled and effective in supporting organization's objectives Evaluate audit results, weighing the relevancy, accuracy, and perspective of conclusions against the accumulated audit evidence Assess the exposures resulting from ineffective or missing control practices and formulate a practical and cost-effective plan to improve those areas Develop an IT audit documentation process and share reports with relevant stakeholders as the basis for decision-making Ensure that the necessary changes based on the audit findings are effectively implemented in a timely manner For each information systems project develop a clear project scope statement in alignment with organizational objectives Define activities needed to successfully execute the information systems program, 	16	21%
		 estimate activity duration, and develop a schedule and staffing plan Develop, manage and monitor the information systems program budget, estimate and control costs of individual projects Identify, negotiate, acquire and manage the resources needed for successful design and implementation of the information systems program (e.g., people, infrastructure, and architecture) Acquire, develop and manage information security project team Assign clear information security personnel job functions and provide continuous training to ensure effective performance and accountability Direct information security personnel and establish communications, and team 		

	Security Program Operations	activities, between the information systems team and other security-related personnel (e.g., technical support, incident management, security engineering) Resolve personnel and teamwork issues within time, cost, and quality constraints Identify, negotiate and manage vendor agreement and community Participate with vendors and stakeholders to review/assess recommended solutions; identify incompatibilities, challenges, or issues with proposed solutions Evaluate the project management practices and controls to determine whether business requirements are achieved in a cost-effective	15	
		 manner while managing risks to the organization Develop a plan to continuously measure the effectiveness of the information systems projects to ensure optimal system performance Identify stakeholders, manage stakeholders' expectations, and communicate effectively to report progress and performance Ensure that necessary changes and improvements to the information systems processes are implemented as required 		
4. Information Security Core Competencies	Access	 Identify the criteria for mandatory and discretionary access control, understand the different factors that help in implementation of access controls and design an access control plan Implement and manage an access control plan in alignment with the basic principles that govern the access control systems such as need-to-know Identify different access control systems such as ID cards and biometrics Understand the importance of warning banners for implementing access rules Develop procedures to ensure system users are aware of their IA responsibilities before granting access to the information systems 	2	19%
	Social Engineering, Phishing Attacks,	 Understand various social engineering concepts and their role in insider attacks and develop best practices to counter social engineering attacks 	3	

Identity Theft	Design a response plan to identity theft incidences	
	 Identify and design a plan to overcome phishing attacks 	
Physical Security	 Identify standards, procedures, directives, policies, regulations, and laws for physical security Determine the value of physical assets and the impact if unavailable Design, implement and manage a comprehensive, coordinated, and holistic physical security plan to ensure overall organizational security including an audit schedule and performance metrics 	2
Disaster Recovery and Business Continuity Planning	 Develop, implement, and monitor business continuity, business recovery, contingency planning, and disaster recovery plans in case of disruptive events and ensure alignment with organizational goals and objectives Direct contingency planning, operations, and programs to manage risk Design documentation process as part of the continuity of operations program Design and execute a testing and updating plan for the continuity of operations program Understand the importance of integration of IA requirements into the Continuity of Operations Plan (COOP). 	2
Firewall, IDS/IPS and Network Defense Systems	 Understand and manage network cloud security Identify the appropriate intrusion detection and prevention systems for organizational information security Design and develop a program to monitor firewalls and identify firewall configuration issues Understand perimeter defense systems such as grid sensors and access control lists on routers, firewalls, and other network devices Identify the basic network architecture, models, protocols and components such as routers and hubs that play a role in network security Understand the concept of network segmentation Manage DMZs, VPN and telecommunication technologies such as PBX and VoIP 	3

	Identify naturally unlargabilities and suplant		
	 Identify network vulnerabilities and explore network security controls such as use of SSL and TLS for transmission security Support, monitor, test, and troubleshoot issues with hardware and software 		
	 Manage accounts, network rights, and access to systems and equipment 		
Wireless Security	Identify vulnerability and attacks associated with wireless networks and manage different wireless network security tools	2	
Virus, Trojans and Malware, and other Malicious Code Threats	 Assess the threat of virus, Trojan and malware to organizational security and identify sources and mediums of malware infection Deploy and manage anti-virus systems Develop process to counter virus, Trojan, and malware threats including training both security teams and non-security teams on secure development processes 	3	
Secure Coding Best Practices and Securing Web Applications	 Develop and maintain software assurance programs in alignment with the secure coding principles and each phase of System Development Life Cycle (SDLC) Understand various system-engineering practices Configure and run tools that help in developing secure programs Understand software vulnerability analysis techniques including static code, dynamic code, and software composition analysis. Install and operate the IT systems in a test configuration manner that does not alter the program code or compromise security safeguards Identify web application vulnerabilities and attacks and web application security tools to counter attacks 	2	
OS Hardening	 Identify various OS vulnerabilities and attacks and develop a plan for hardening OS systems Understand system logs, patch management process and configuration management for information system security 	2	
Encryption Technologies	 Understand the concept of encryption and decryption, digital certificates, public key infrastructure and the key differences between cryptography and steganography Identify the different components of a cryptosystem 	2	

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	Develop a plan for information security		
	encryption techniques		
Vulnerability	, , ,	2	
Assessment	testing program based on penetration testing		
and	methodology to ensure organizational		
Penetration	security		
Testing	Identify different vulnerabilities associated		
	with information systems and legal issues		
	involved in penetration testing		
	Develop pre and post testing procedures		
	Develop a plan for pen test reporting and		
	implementation of technical vulnerability		
	corrections		
	Develop vulnerability management systems		
Threat	Create and manage a threat management	2	
Managemen	program including threat intelligence, third-		
	party threats, and security bulletins regarding		
	hardware and software, particularly open-		
	source software		
Incident	Develop a plan to identify a potential security	2	
Response	violation and take appropriate action to		
and	report the incident		
Computer	Comply with system termination procedures		
Forensics	and incident reporting requirements related		
	to potential security incidents or actual		
	breaches		
	 Assess potential security violations to 		
	determine if the network security policies		
	have been breached, assess the impact, and		
	preserve evidence		
	Diagnose and resolve IA problems in response		
	to reported incidents		
	Design incident response procedures		
	including testing, table top exercises, and		
	playbooks		
	Develop guidelines to determine whether a		
	security incident is indicative of a violation of		
	law that requires special legal action		
	Identify the volatile and persistent system		
	information		
	Set up and manage forensic labs and		
	programs		
	Understand various digital media devices,		
	e-discovery principles and practices and		
	different file systems		
	Develop and manage an organizational digital		
	forensic program		

		 Establish, develop and manage forensic investigation teams Design investigation processes such as evidence collection, imaging, data acquisition, and analysis Identify the best practices to acquire, store and process digital evidence Configure and use various forensic investigation tools Design anti-forensic techniques 		
5. Strategic Planning, Finance, Procurement, and Third-Party Management	Strategic Planning	 Design, develop and maintain enterprise information security architecture (EISA) by aligning business processes, IT software and hardware, local and wide area networks, people, operations, and projects with the organization's overall security strategy Perform external analysis of the organization (e.g., analysis of customers, competitors, markets and industry environment) and internal analysis (risk management, organizational capabilities, performance measurement etc.) and utilize them to align information security program with organization's objectives Identify and consult with key stakeholders to ensure understanding of organization's objectives Define a forward-looking, visionary and innovative strategic plan for the role of the information security program with clear goals, objectives and targets that support the operational needs of the organization Define key performance indicators and measure e effectiveness on continuous basis Assess and adjust security resources to ensure they support the organization's strategic objectives Monitor and update activities to ensure accountability and progress 	10	19%
	Finance	 Analyze, forecast and develop the operational budget of the security department Acquire and manage the necessary resources for implementation and management of information security plan Allocate financial resources to projects, processes and units within information security program 	9	

- Monitor and oversee cost management of information security projects, return on investment (ROI) of key purchases related to IT infrastructure and security and ensure alignment with the strategic plan
- Identify and report financial metrics to stakeholders
- Balance the IT security investment portfolio based on EISA considerations and enterprise security priorities
- Understand the acquisition life cycle and determine the importance of procurement by performing Business Impact Analysis
- Identify different procurement strategies and understand the importance of cost-benefit analysis during procurement of an information system
- Understand the basic procurement concepts such as Statement of Objectives (SOO), Statement of Work (SOW), and Total Cost of Ownership (TCO)
- Collaborate with various stakeholders (which may include internal client, lawyers, IT security professionals, privacy professionals, security engineers, suppliers, and others) on the procurement of IT security products and services
- Include risk-based security requirements in acquisition plans, cost estimates, statements of work, contracts, and evaluation factors for award, service level agreements, and other pertinent procurement documents
- Design vendor selection process and management policy
- Develop contract administration policies that direct the evaluation and acceptance of delivered IT security products and services under a contract, as well as the security evaluation of IT and software being procured
- Develop measures and reporting standards to measure and report on key objectives in procurements aligned with IT security policies and procedures
- Understand the IA security requirements to be included in statements of work and other appropriate procurement documents

Third Party	Design third party selection process	9	
Manageme	• , ,		
	metrics, and processes		
	Design and manage the third party		
	assessment process including ongoing		
	compliance management		
	Develop measures and reporting standards to		
	measure and report on key objectives in		
	procurements aligned with IT security policies		
	and procedures		
	Include risk-based security requirements in		
	acquisition plans, cost estimates, statements		
	of work, contracts, and evaluation factors for		
	award, service level agreements, and other		
	pertinent procurement documents		
	 Understand the security, privacy, and 		
	compliance requirements to be included in		
	Statements of Work (SOW), Master Service		
	Agreements (MSA), and other appropriate		
	procurement documents		