

CCISO

EC-Council Chief Information Security Officer

A Success Guide to Prepare-EC-Council Chief Information Security Officer

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Introduction to CCISO Exam on EC-Council Chief Information Security Officer

Use this quick start guide to collect all the information about EC-Council CCISO Certification exam. This study guide provides a list of objectives and resources that will help you prepare for items on the EC-Council Chief Information Security Officer (CCISO) exam. The Sample Questions will help you identify the type and difficulty level of the questions and the Practice Exams will make you familiar with the format and environment of an exam. You should refer this guide carefully before attempting your actual EC-Council Certified Chief Information Security Officer (CCISO) certification exam.

The EC-Council CCISO certification is mainly targeted to those candidates who want to build their career in Cyber Security domain. The EC-Council Certified Chief Information Security Officer (CCISO) exam verifies that the candidate possesses the fundamental knowledge and proven skills in the area of EC-Council CISO.

Exam Name	EC-Council Certified Chief Information Security Officer (CCISO)		
Exam Code	CCISO		
Exam Price	\$999 (USD)		
Duration	150 minutes		
Number of Questions	150		
Passing Score	72%		
Books / Training	<u>Courseware</u>		
Schedule Exam	Pearson VUE OR ECC Exam Center		
Sample Questions	EC-Council CCISO Sample Questions		
Practice Exam	EC-Council CCISO Certification Practice Exam		

EC-Council CCISO Certification Details:



EC-Council CCISO Exam Syllabus:

Торіс	Details
Governance	 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. Analyze all the external laws, regulations, standards, and best practices applicable to the organization. Understand the various provisions of the laws that affect the organizational security such as Gramm-Leach-Billey Act, Family Educational Rights and Privacy Act, Health Insurance Portability and Accountability Act [HIPAA], Federal Information Security Management Act [FISMA], Clinger-Cohen Act, Privacy Act, Sarbanes-Oxley, etc. Be familiar with the different standards such as ISO 27000 series, Federal Information Processing Standards [FIPS]. Understand the importance of regulatory information security strategies, plans, policies, and procedures to reduce regulatory risk. Understand the information security compliance. Coordinate the application of information security strategies, plans, policies, and procedures to reduce regulatory risk. Understand the information security compliance process and procedures. Compile, analyze, and report compliance programs. Understand the information security compliance process and procedures.
Security Risk Management, Controls, & Audit Management	 Information Security Management Controls: Identify the organization's operational process and objectives as well as risk tolerance level. Design information systems controls in alignment with the operational needs and goals and conduct testing prior to



Торіс	Details
Topic	 Details implementation to ensure effectiveness and efficiency. Supervise the information systems control process to ensure timely implementation in accordance with the outlined budget and scope, and communicate progress to stakeholders. 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 (KPIs). Design and conduct testing of information security controls to ensure effectiveness, discover deficiencies and ensure alignment with organization's policies, standards and procedures. 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 status reports to ensure that the processes for information systems operations, maintenance and support meet the organization's strategies and objectives, and share with relevant stakeholders to support executive decision-making. Auditing Management: Understand the IT audit process and be familiar with 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. Effectively 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.
Security Program	 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
Management & Operations	 scope statement in alignment with organizational objectives. Define activities needed to successfully execute the information systems program, estimate activity duration, and develop a



Торіс	Details		
•	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 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 communication. 		
 Participate with vendors and stakeholders to review recommended solutions; identify incompatibilities, ch issues with proposed solutions. 			
	 Evaluate the project management practices and controls to determine whether business requirements are achieved in a cost- effective 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. 		
	Access Control:		
Information Security Core Concepts	- 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		
	- Develop procedures to ensure system users are aware of their IA responsibilities before granting access to the information systems.		



Topic	Details			
	Social Engineering, Phishing Attacks, Identity Theft:			
	- Understand various social engineering concepts and their role i			
	insider attacks and develop best practices to counter social			
	engineering attacks.			
	- 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.			
	- Identify resources needed to effectively implement a physical			
	security plan.			
	- Design, implement and manage a coherent, coordinated, and			
	holistic physical security plan to ensure overall organizational			
	security.			
	- Establish objectives for personnel security to ensure alignment			
	with overall security goals for the enterprise.			
	- Design and manage the physical security audit and update			
	ISSUES.			
	- Establish a physical security performance measurement system.			
	Risk Management:			
	- Identify the risk mitigation and risk treatment processes and			
	understand the concept of acceptable risk.			
	- Identify resource requirements for risk management plan			
	implementation.			
	- Design a systematic and structured risk assessment process			
	and establish, in coordination with stakeholders, an IT security			
	risk management program based on standards and procedures			
	and ensure alignment with organizational goals and objectives.			
	 Develop, coordinate and manage risk management teams. 			
	- Establish relationships between the incident response team and			
	other groups, both internal (e.g., legal department) and external			
	(e.g., law enforcement agencies, vendors, and public relations			
	professionals)			
	 Develop an incident management measurement program and 			
	manage the risk management tools and techniques.			
	- Understand the residual risk in the information infrastructure.			
	- Assess threats and vulnerabilities to identify security risks, and			
	regularly update applicable security controls.			
	 Identify changes to risk management policies and processes 			
	and ensure the risk management program remains current with			
	the emerging risk and threat environment and in alignment with			
	the organizational goals and objectives.			
	- Determine if security controls and processes are adequately			



Торіс	Details
	integrated into the investment planning process based on IT portfolio and security reporting.
	 portfolio and security reporting. Disaster Recovery and Business Continuity Planning: Develop, implement and monitor business continuity plans in case of disruptive events and ensure alignment with organizational goals and objectives. Define the scope of the enterprise continuity of operations program to address business continuity, business recovery, contingency planning, and disaster recovery/related activities. Identify the resources and roles of different stakeholders in business continuity programs. Identify and prioritize critical business functions and consequently design emergency delegations of authority, orders of succession for key positions, the enterprise continuity of operations organizational structure and staffing model. Direct contingency planning, operations, and programs to manage risk. Understand the importance of lessons learned from test, training and exercise, and crisis events. 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). Identify the measures to increase the level of emergency preparedness such as backup and recovery solutions and design
	disasters.
	 Firewall, IDS/IPS and Network Defense Systems: 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.
	 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.



Торіс	Details		
	 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.		
	 Virus, Trojans and Malware 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. 		
	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 the software vulnerability analysis techniques. 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. 		
	Hardening OS:		
	 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. 		
	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. Develop a plan for information security encryption techniques. Design, develop and implement a penetration testing program based on penetration testing methodology to ensure 		
	organizational security. - 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		



Торіс	Details
	technical vulnerability corrections.
	 Develop vulnerability management systems.
	 Develop vulnerability management systems. Computer Forensics And Incident Response: Develop a plan to identify a potential security violation and take appropriate action to report the incident. Comply with system termination procedures 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. Develop guidelines to determine whether a security incident is indicative of a violation of law that requires specific 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.
Strategic Planning, Finance, & Vendor 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 effectiveness on continuous basis.





CCISO Sample Questions:

01. Which of the following is a fundamental component of an audit record?

- **a)** Date and time of the event
- **b)** Failure of the event
- c) Originating IP-Address
- d) Authentication type

02. In which of the following cases, would an organization be more prone to risk acceptance vs. risk mitigation?

- a) The organization uses exclusively a quantitative process to measure risk
- **b)** The organization uses exclusively a qualitative process to measure risk
- c) The organization's risk tolerance is high
- d) The organization's risk tolerance is low

03. Which of the following is the MOST important goal of risk management?

- **a)** Identifying the risk
- **b**) Finding economic balance between the impact of the risk and the cost of the control
- c) Identifying the victim of any potential exploits.
- d) Assessing the impact of potential threats

04. The exposure factor of a threat to your organization is defined by?

- a) Asset value times exposure factor
- **b)** Annual rate of occurrence
- c) Annual loss expectancy minus current cost of controls
- d) Percentage of loss experienced due to a realized threat event

05. Within an organization's vulnerability management program, who has the responsibility to implement remediation actions?

- a) Security officer
- b) Data owner
- c) Vulnerability engineer
- d) System administrator

06. A missing/ineffective security control is identified. Which of the following should be the NEXT step?

- a) Perform an audit to measure the control formally
- **b)** Escalate the issue to the IT organization
- c) Perform a risk assessment to measure risk
- d) Establish Key Risk Indicators

07. When dealing with Security Incident Response procedures, which of the following steps come FIRST when reacting to an incident?

- a) Containment
- **b)** Recovery
- c) Eradication
- **d)** Escalation



08. Which of the following are the MOST important factors for proactively determining system vulnerabilities?

- a) Subscribe to vendor mailing list to get notification of system vulnerabilities
- **b)** Deploy Intrusion Detection System (IDS) and install anti-virus on systems
- c) Configure firewall, perimeter router and Intrusion Prevention System (IPS)
- d) Conduct security testing, vulnerability scanning, and penetration testing

09. Creating a secondary authentication process for network access would be an example of?

- a) An administrator with too much time on their hands.
- **b**) Putting undue time commitment on the system administrator.
- c) Supporting the concept of layered security
- d) Network segmentation.

10. What is the BEST way to achieve on-going compliance monitoring in an organization?

a) Only check compliance right before the auditors are scheduled to arrive onsite.

- **b)** Have Compliance and Information Security partner to correct issues as they arise.
- c) Outsource compliance to a 3rd party vendor and let them manage the program.
- d) Have Compliance direct Information Security to fix issues after the auditors report.

Answers to CCISO Exam Questions:

Question: 01	Question: 02	Question: 03	Question: 04	Question: 05
Answer: a	Answer: c	Answer: b	Answer: d	Answer: d
Question: 06	Question: 07	Question: 08	Question: 09	Question: 10
Answer: c	Answer: a	Answer: d	Answer: c	Answer: b

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@edusum.com