

# 712-50 exam guide: EC-Council Certified CISO (CCISO) & 712-50 actual test & 712-50 pass-for-sure



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## EC-Council 712-50 Exam Syllabus Topics:

Topic	Details	Weightage
	<p><b>1. Access Control</b></p> <ul style="list-style-type: none"> <li>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</li> <li>Implement and manage an access control plan in alignment with the basic principles that govern the access control systems such as need-to-know</li> <li>Identify different access control systems such as ID cards and biometrics</li> <li>Understand the importance of warning banners for implementing access rules</li> <li>Develop procedures to ensure system users are aware of their IA responsibilities before granting access to the information systems</li> </ul> <p><b>2. Social Engineering, Phishing Attacks, Identity Theft</b></p> <ul style="list-style-type: none"> <li>Understand various social engineering concepts and their role in insider attacks and develop best practices to counter social engineering attacks</li> <li>Design a response plan to identity theft incidences</li> <li>Identify and design a plan to overcome phishing attacks</li> </ul> <p><b>3. Physical Security</b></p> <ul style="list-style-type: none"> <li>Identify standards, procedures, directives, policies, regulations and laws for physical security</li> <li>Determine the value of physical assets and the impact if unavailable</li> <li>Identify resources needed to effectively implement a physical security plan</li> <li>Design, implement and manage a coherent, coordinated, and holistic physical security plan to ensure overall organizational security</li> <li>Establish objectives for personnel security to ensure alignment with overall security goals for the enterprise</li> <li>Design and manage the physical security audit and update issues</li> </ul>	

- Establish a physical security performance measurement system

#### **4. 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 integrated into the investment planning process based on IT portfolio and security reporting

#### **5. 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 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).
- Identify the measures to increase the level of emergency preparedness such as backup and recovery solutions and design standard operating procedures for implementation during disasters

#### **6. 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

- Manage accounts, network rights, and access to systems and equipment

## 7. Wireless Security

- Identify vulnerability and attacks associated with wireless networks and manage different wireless network security tools

## 8. 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

## 9. 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

## 10. 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

## 11. 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

## 12. Vulnerability Assessment And Penetration Testing

- 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 technical vulnerability corrections
- Develop vulnerability management systems

## 13. 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
- Design incident response procedures
- 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, Procurement, and Vendor Management	<p><b>1.Strategic Planning</b></p> <ul style="list-style-type: none"> <li>• 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</li> <li>• 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</li> <li>• Identify and consult with key stakeholders to ensure understanding of organization's objectives</li> <li>• 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</li> <li>• Define key performance indicators and measure effectiveness on continuous basis</li> <li>• Assess and adjust IT investments to ensure they are on track to support organization's strategic objectives</li> <li>• Monitor and update activities to ensure accountability and progress</li> </ul> <p><b>2.Finance</b></p> <ul style="list-style-type: none"> <li>• Analyze, forecast and develop the operational budget of the IT department</li> <li>• Acquire and manage the necessary resources for implementation and management of information security plan</li> <li>• Allocate financial resources to projects, processes and units within information security program</li> <li>• 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</li> <li>• Identify and report financial metrics to stakeholders</li> <li>• Balance the IT security investment portfolio based on EISA considerations and enterprise security priorities</li> <li>• Understand the acquisition life cycle and determine the importance of procurement by performing Business Impact Analysis</li> <li>• Identify different procurement strategies and understand the importance of cost benefit analysis during procurement of an information system</li> <li>• Understand the basic procurement concepts such as Statement of Objectives (SOO), Statement of Work (SOW), and Total Cost of Ownership (TCO)</li> <li>• 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</li> <li>• Ensure the inclusion of risk-based IT security requirements in acquisition plans, cost estimates, statements of work, contracts, and evaluation factors for award, service level agreements, and other pertinent procurement documents</li> <li>• Design vendor selection process and management policy</li> <li>• 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</li> <li>• Develop measures and reporting standards to measure and report on key objectives in procurements aligned with IT security policies and procedures</li> <li>• Understand the IA security requirements to be included in statements of work and other appropriate procurement documents</li> </ul>	17%
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Security Program Management & Operations	<ul style="list-style-type: none"> <li>- For each information systems project develop a clear project scope statement in alignment with organizational objectives</li> <li>- Define activities needed to successfully execute the information systems program, estimate activity duration, and develop a schedule and staffing plan</li> <li>- Develop, manage and monitor the information systems program budget, estimate and control costs of individual projects</li> <li>- Identify, negotiate, acquire and manage the resources needed for successful design and implementation of the information systems program (e.g., people, infrastructure, and architecture)</li> <li>- Acquire, develop and manage information security project team</li> <li>- Assign clear information security personnel job functions and provide continuous training to ensure effective performance and accountability</li> <li>- 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)</li> <li>- Resolve personnel and teamwork issues within time, cost, and quality constraints</li> <li>- Identify, negotiate and manage vendor agreement and community</li> <li>- Participate with vendors and stakeholders to review/assess recommended solutions; identify incompatibilities, challenges, or issues with proposed solutions</li> <li>- 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</li> <li>- Develop a plan to continuously measure the effectiveness of the information systems projects to ensure optimal system performance</li> <li>- Identify stakeholders, manage stakeholders' expectations and communicate effectively to report progress and performance</li> <li>- Ensure that necessary changes and improvements to the information systems processes are implemented as required</li> </ul>	22%
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The CCISO certification is based on a comprehensive body of knowledge (CBK) that covers key areas such as governance, risk management, compliance, strategic planning, and leadership. 712-50 Exam is designed to assess the candidate's knowledge and understanding of these key areas, as well as their ability to apply this knowledge to real-world situations. The CCISO certification is widely recognized as a mark of excellence in the information security industry, and is highly valued by employers and organizations around the world.

The EC-Council Certified CISO (CCISO) certification exam is a popular certification program for experienced cybersecurity professionals who want to advance their careers to the next level. 712-50 exam is designed to test the knowledge and skills required to be a successful Chief Information Security Officer (CISO), and is globally recognized as a benchmark for excellence in this field. The CCISO certification demonstrates that an individual has the competency, experience, and credibility to lead an organization's cybersecurity program.

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## EC-COUNCIL EC-Council Certified CISO (CCISO) Sample Questions (Q338-Q343):

### NEW QUESTION # 338

A severe security threat has been detected on your corporate network. As CISO you quickly assemble key members of the Information Technology team and business operations to determine a modification to security controls in response to the threat.

This is an example of:

- **A. Security Incident Response**
- B. Change management
- C. Business continuity planning
- D. Thought leadership

**Answer: A**

#### **NEW QUESTION # 339**

The new CISO was informed of all the Information Security projects that the organization has in progress. Two projects are over a year behind schedule and over budget. Using best business practices for project management you determine that the project correctly aligns with the company goals.

Which of the following needs to be performed NEXT?

- A. Verify the regulatory requirements
- B. Verify capacity constraints
- C. Verify the scope of the project
- **D. Verify technical resources**

**Answer: D**

#### **NEW QUESTION # 340**

Which of the following statements about Encapsulating Security Payload (ESP) is true?

- A. It uses UDP port 22
- **B. It is an IPSec protocol.**
- C. It uses TCP port 22 as the default port and operates at the application layer.
- D. It is a text-based communication protocol.

**Answer: B**

Explanation:

Encapsulating Security Payload (ESP):

ESP is a protocol within the IPSec suite that provides confidentiality, integrity, and authentication for network traffic by encrypting packet payloads.

Key Features of ESP:

- \* Operates at the network layer.
- \* Ensures data confidentiality and protects against tampering.

Why Not Other Options:

- \* B. Text-based communication protocol: ESP is not text-based; it deals with encrypted data.
- \* C. Uses TCP port 22: ESP does not operate at the application layer.
- \* D. Uses UDP port 22: Incorrect; ESP typically uses protocol number 50.

EC-Council Emphasis:

ESP's role in securing IP communications highlights its importance in modern security architectures.

#### **NEW QUESTION # 341**

John is the project manager for a large project in his organization. A new change request has been proposed that will affect several areas of the project. One area of the project change impact is on work that a vendor has already completed. The vendor is refusing to make the changes as they've already completed the project work they were contracted to do. What can John do in this instance?

- **A. Refer to the contract agreement for direction.**
- B. Withhold the vendor's payments until the issue is resolved.
- C. Review the Request for Proposal (RFP) for guidance.
- D. Refer the vendor to the Service Level Agreement (SLA) and insist that they make the changes.

**Answer: A**



Explanation:

When a vendor refuses to make changes after completing contracted work, the contract agreement serves as the binding document to resolve disputes and clarify obligations.

\* Contractual Obligations:

\* The agreement outlines the scope of work, responsibilities, and any clauses related to change management.

\* Ensures both parties adhere to predefined terms.

\* Steps to Resolve the Dispute:

\* Review clauses about post-completion changes.

\* Assess whether the requested changes fall within the vendor's contractual obligations.

\* Why Other Options Are Less Suitable:

\* SLA: Typically focuses on performance and service quality, not contract modifications.

\* RFP: Pre-contract document, not applicable for resolving disputes.

\* Withholding Payments: A punitive action that could escalate the conflict without resolving the issue.

\* Vendor Management: Emphasizes the importance of clear contracts for managing vendor relationships and resolving conflicts.

\* Legal and Compliance Guidance: Stresses adherence to contractual terms to ensure fairness and enforceability.

### NEW QUESTION # 342

An application vulnerability assessment has identified a security flaw in an application. This is a flaw that was previously identified and remediated on a prior release of the application. Which of the following is MOST likely the reason for this recurring issue?

- A. Ineffective configuration management controls
- **B. Lack of version/source controls**
- C. Lack of change management controls
- D. High turnover in the application development department




Answer: B

### NEW QUESTION # 343

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