

## CISM Dumps

### Certified Information Security Manager

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**NEW QUESTION 1**

Which of the following is responsible for legal and regulatory liability?

- A. Chief security officer (CSO)
- B. Chief legal counsel (CLC)
- C. Board and senior management
- D. Information security steering group

**Answer: C**

**Explanation:**

The board of directors and senior management are ultimately responsible for all that happens in the organization. The others are not individually liable for failures of security in the organization.

**NEW QUESTION 2**

When an organization is implementing an information security governance program, its board of directors should be responsible for:

- A. drafting information security policies
- B. reviewing training and awareness program
- C. setting the strategic direction of the program
- D. auditing for compliance

**Answer: C**

**Explanation:**

A board of directors should establish the strategic direction of the program to ensure that it is in sync with the company's vision and business goals. The board must incorporate the governance program into the overall corporate business strategy. Drafting information security policies is best fulfilled by someone such as a security manager with the expertise to bring balance, scope and focus to the policies. Reviewing training and awareness programs may best be handled by security management and training staff to ensure that the training is on point and follows best practices. Auditing for compliance is best left to the internal and external auditors to provide an objective review of the program and how it meets regulatory and statutory compliance.

**NEW QUESTION 3**

Which of the following would be MOST effective in successfully implementing restrictive password policies?

- A. Regular password audits
- B. Single sign-on system
- C. Security awareness program
- D. Penalties for noncompliance

**Answer: C**

**Explanation:**

To be successful in implementing restrictive password policies, it is necessary to obtain the buy-in of the end users. The best way to accomplish this is through a security awareness program. Regular password audits and penalties for noncompliance would not be as effective on their own; people would go around them unless forced by the system. Single sign-on is a technology solution that would enforce password complexity but would not promote user compliance. For the effort to be more effective, user buy-in is important.

**NEW QUESTION 4**

Which of the following would BEST ensure the success of information security governance within an organization?

- A. Steering committees approve security projects
- B. Security policy training provided to all managers
- C. Security training available to all employees on the intranet
- D. Steering committees enforce compliance with laws and regulations

**Answer: A**

**Explanation:**

The existence of a steering committee that approves all security projects would be an indication of the existence of a good governance program. Compliance with laws and regulations is part of the responsibility of the steering committee but it is not a full answer. Awareness training is important at all levels in any medium, and also an indicator of good governance. However, it must be guided and approved as a security project by the steering committee.

**NEW QUESTION 5**

The MAIN reason for having the Information Security Steering Committee review a new security controls implementation plan is to ensure that:

- A. the plan aligns with the organization's business plan
- B. departmental budgets are allocated appropriately to pay for the plan
- C. regulatory oversight requirements are met
- D. the impact of the plan on the business units is reduced

**Answer: A**

**Explanation:**

The steering committee controls the execution of the information security strategy according to the needs of the organization and decides on the project prioritization and the execution plan. The steering committee does not allocate department budgets for business units. While ensuring that regulatory oversight requirements are met could be a consideration, it is not the main reason for the review. Reducing the impact on the business units is a secondary concern but not the main reason for the review.

**NEW QUESTION 6**

When a security standard conflicts with a business objective, the situation should be resolved by:

- A. changing the security standar
- B. changing the business objectiv
- C. performing a risk analysi
- D. authorizing a risk acceptanc

**Answer: C**

**Explanation:**

Conflicts of this type should be based on a risk analysis of the costs and benefits of allowing or disallowing an exception to the standard. It is highly improbable that a business objective could be changed to accommodate a security standard, while risk acceptance\* is a process that derives from the risk analysis.

**NEW QUESTION 7**

Which of the following BEST contributes to the development of a security governance framework that supports the maturity model concept?

- A. Continuous analysis, monitoring and feedback
- B. Continuous monitoring of the return on security investment (ROSD)
- C. Continuous risk reduction
- D. Key risk indicator (KRD) setup to security management processes

**Answer: A**

**Explanation:**

To improve the governance framework and achieve a higher level of maturity, an organization needs to conduct continuous analysis, monitoring and feedback compared to the current state of maturity. Return on security investment (ROSD) may show the performance result of the security-related activities; however, the result is interpreted in terms of money and extends to multiple facets of security initiatives. Thus, it may not be an adequate option. Continuous risk reduction would demonstrate the effectiveness of the security governance framework, but does not indicate a higher level of maturity. Key risk indicator (KRD) setup is a tool to be used in internal control assessment. KRI setup presents a threshold to alert management when controls are being compromised in business processes. This is a control tool rather than a maturity model support tool.

**NEW QUESTION 8**

An internal audit has identified major weaknesses over IT processing. Which of the following should an information security manager use to BEST convey a sense of urgency to management?

- A. Security metrics reports
- B. Risk assessment reports
- C. Business impact analysis (BIA)
- D. Return on security investment report

**Answer: B**

**Explanation:**

Performing a risk assessment will allow the information security manager to prioritize the remedial measures and provide a means to convey a sense of urgency to management. Metrics reports are normally contained within the methodology of the risk assessment to give it credibility and provide an ongoing tool. The business impact analysis (BIA) covers continuity risks only. Return on security investment cannot be determined until a plan is developed based on the BIA.

**NEW QUESTION 9**

When an information security manager is developing a strategic plan for information security, the timeline for the plan should be:

- A. aligned with the IT strategic pla
- B. based on the current rate of technological chang
- C. three-to-five years for both hardware and softwar
- D. aligned with the business strateg

**Answer: D**

**Explanation:**

Any planning for information security should be properly aligned with the needs of the business. Technology should not come before the needs of the business, nor should planning be done on an artificial timetable that ignores business needs.

**NEW QUESTION 10**

Information security policy enforcement is the responsibility of the:

- A. security steering committee
- B. chief information officer (CIO).
- C. chief information security officer (CISO).
- D. chief compliance officer (CCO).

**Answer:** C

**Explanation:**

Information security policy enforcement is the responsibility of the chief information security officer (CISO), first and foremost. The board of directors and executive management should ensure that a security policy is in line with corporate objectives. The chief information officer (CIO) and the chief compliance officer (CCO) are involved in the enforcement of the policy but are not directly responsible for it.

#### **NEW QUESTION 10**

Which of the following is the MOST important factor when designing information security architecture?

- A. Technical platform interfaces
- B. Scalability of the network
- C. Development methodologies
- D. Stakeholder requirements

**Answer:** D

**Explanation:**

The most important factor for information security is that it advances the interests of the business, as defined by stakeholder requirements. Interoperability and scalability, as well as development methodologies, are all important but are without merit if a technologically-elegant solution is achieved that does not meet the needs of the business.

#### **NEW QUESTION 11**

What would a security manager PRIMARILY utilize when proposing the implementation of a security solution?

- A. Risk assessment report
- B. Technical evaluation report
- C. Business case
- D. Budgetary requirements

**Answer:** C

**Explanation:**

The information security manager needs to prioritize the controls based on risk management and the requirements of the organization. The information security manager must look at the costs of the various controls and compare them against the benefit the organization will receive from the security solution. The information security manager needs to have knowledge of the development of business cases to illustrate the costs and benefits of the various controls. All other choices are supplemental.

#### **NEW QUESTION 12**

Which of the following is the MOST important information to include in an information security standard?

- A. Creation date
- B. Author name
- C. Initial draft approval date
- D. Last review date

**Answer:** D

**Explanation:**

The last review date confirms the currency of the standard, affirming that management has reviewed the standard to assure that nothing in the environment has changed that would necessitate an update to the standard. The name of the author as well as the creation and draft dates are not that important.

#### **NEW QUESTION 14**

Security technologies should be selected PRIMARILY on the basis of their:

- A. ability to mitigate business risk
- B. evaluations in trade publication
- C. use of new and emerging technologie
- D. benefits in comparison to their cost

**Answer:** A

**Explanation:**

The most fundamental evaluation criterion for the appropriate selection of any security technology is its ability to reduce or eliminate business risks. Investments in security technologies should be based on their overall value in relation to their cost; the value can be demonstrated in terms of risk mitigation. This should take precedence over whether they use new or exotic technologies or how they are evaluated in trade publications.

**NEW QUESTION 17**

An information security manager mapping a job description to types of data access is MOST likely to adhere to which of the following information security principles?

- A. Ethics
- B. Proportionality
- C. Integration
- D. Accountability

**Answer: B**

**Explanation:**

Information security controls should be proportionate to the risks of modification, denial of use or disclosure of the information. It is advisable to learn if the job description is apportioning more data than are necessary for that position to execute the business rules (types of data access). Principles of ethics and integration have the least to do with mapping job description to types of data access. The principle of accountability would be the second most adhered to principle since people with access to data may not always be accountable but may be required to perform an operation.

**NEW QUESTION 18**

A risk assessment and business impact analysis (BIA) have been completed for a major proposed purchase and new process for an organization. There is disagreement between the information security manager and the business department manager who will own the process regarding the results and the assigned risk. Which of the following would be the BEST approach of the information security manager?

- A. Acceptance of the business manager's decision on the risk to the corporation
- B. Acceptance of the information security manager's decision on the risk to the corporation
- C. Review of the assessment with executive management for final input
- D. A new risk assessment and BIA are needed to resolve the disagreement

**Answer: C**

**Explanation:**

Executive management must be supportive of the process and fully understand and agree with the results since risk management decisions can often have a large financial impact and require major changes. Risk management means different things to different people, depending upon their role in the organization, so the input of executive management is important to the process.

**NEW QUESTION 23**

Obtaining senior management support for establishing a warm site can BEST be accomplished by:

- A. establishing a periodic risk assessment
- B. promoting regulatory requirement
- C. developing a business case
- D. developing effective metric

**Answer: C**

**Explanation:**

Business case development, including a cost-benefit analysis, will be most persuasive to management. A risk assessment may be included in the business case, but by itself will not be as effective in gaining management support. Informing management of regulatory requirements may help gain support for initiatives, but given that more than half of all organizations are not in compliance with regulations, it is unlikely to be sufficient in many cases. Good metrics which provide assurance that initiatives are meeting organizational goals will also be useful, but are insufficient in gaining management support.

**NEW QUESTION 26**

When identifying legal and regulatory issues affecting information security, which of the following would represent the BEST approach to developing information security policies?

- A. Create separate policies to address each regulation
- B. Develop policies that meet all mandated requirements
- C. Incorporate policy statements provided by regulators
- D. Develop a compliance risk assessment

**Answer: B**

**Explanation:**

It will be much more efficient to craft all relevant requirements into policies than to create separate versions. Using statements provided by regulators will not capture all of the requirements mandated by different regulators. A compliance risk assessment is an important tool to verify that procedures ensure compliance once the policies have been established.

**NEW QUESTION 30**

Which of the following are seldom changed in response to technological changes?

- A. Standards
- B. Procedures
- C. Policies
- D. Guidelines

**Answer:**



C

**Explanation:**

Policies are high-level statements of objectives. Because of their high-level nature and statement of broad operating principles, they are less subject to periodic change. Security standards and procedures as well as guidelines must be revised and updated based on the impact of technology changes.

**NEW QUESTION 34**

In implementing information security governance, the information security manager is PRIMARILY responsible for:

- A. developing the security strateg
- B. reviewing the security strateg
- C. communicating the security strateg
- D. approving the security strategy

**Answer:** A

**Explanation:**

The information security manager is responsible for developing a security strategy based on business objectives with the help of business process owners. Reviewing the security strategy is the responsibility of a steering committee. The information security manager is not necessarily responsible for communicating or approving the security strategy.

**NEW QUESTION 39**

What is the MOST important factor in the successful implementation of an enterprise wide information security program?

- A. Realistic budget estimates
- B. Security awareness
- C. Support of senior management
- D. Recalculation of the work factor

**Answer:** C

**Explanation:**

Without the support of senior management, an information security program has little chance of survival. A company's leadership group, more than any other group, will more successfully drive the program. Their authoritative position in the company is a key factor. Budget approval, resource commitments, and companywide participation also require the buy-in from senior management. Senior management is responsible for providing an adequate budget and the necessary resources. Security awareness is important, but not the most important factor. Recalculation of the work factor is a part of risk management.

**NEW QUESTION 43**

On a company's e-commerce web site, a good legal statement regarding data privacy should include:

- A. a statement regarding what the company will do with the information it collect
- B. a disclaimer regarding the accuracy of information on its web sit
- C. technical information regarding how information is protecte
- D. a statement regarding where the information is being hoste

**Answer:** A

**Explanation:**

Most privacy laws and regulations require disclosure on how information will be used. A disclaimer is not necessary since it does not refer to data privacy. Technical details regarding how information is protected are not mandatory to publish on the web site and in fact would not be desirable. It is not mandatory to say where information is being hosted.

**NEW QUESTION 46**

Which of the following is the MOST appropriate position to sponsor the design and implementation of a new security infrastructure in a large global enterprise?

- A. Chief security officer (CSO)
- B. Chief operating officer (COO)
- C. Chief privacy officer (CPO)
- D. Chief legal counsel (CLC)

**Answer:** B

**Explanation:**

The chief operating officer (COO) is most knowledgeable of business operations and objectives. The chief privacy officer (CPO) and the chief legal counsel (CLC) may not have the knowledge of the day- to-day business operations to ensure proper guidance, although they have the same influence within the organization as the COO. Although the chief security officer (CSO) is knowledgeable of what is needed, the sponsor for this task should be someone with far-reaching influence across the organization.

**NEW QUESTION 49**

The MOST important factor in planning for the long-term retention of electronically stored business records is to take into account potential changes in:

- A. storage capacity and shelf lif

- B. regulatory and legal requirement
- C. business strategy and direction
- D. application systems and media

**Answer:** D

**Explanation:**

Long-term retention of business records may be severely impacted by changes in application systems and media. For example, data stored in nonstandard formats that can only be read and interpreted by previously decommissioned applications may be difficult, if not impossible, to recover. Business strategy and direction do not generally apply, nor do legal and regulatory requirements. Storage capacity and shelf life are important but secondary issues.

#### **NEW QUESTION 52**

Which of the following is the BEST justification to convince management to invest in an information security program?

- A. Cost reduction
- B. Compliance with company policies
- C. Protection of business assets
- D. Increased business value

**Answer:** D

**Explanation:**

Investing in an information security program should increase business value and confidence. Cost reduction by itself is rarely the motivator for implementing an information security program. Compliance is secondary to business value. Increasing business value may include protection of business assets.

#### **NEW QUESTION 56**

Which of the following should be the FIRST step in developing an information security plan?

- A. Perform a technical vulnerabilities assessment
- B. Analyze the current business strategy
- C. Perform a business impact analysis
- D. Assess the current levels of security awareness

**Answer:** B

**Explanation:**

Prior to assessing technical vulnerabilities or levels of security awareness, an information security manager needs to gain an understanding of the current business strategy and direction. A business impact analysis should be performed prior to developing a business continuity plan, but this would not be an appropriate first step in developing an information security strategy because it focuses on availability.

#### **NEW QUESTION 61**

Logging is an example of which type of defense against systems compromise?

- A. Containment
- B. Detection
- C. Reaction
- D. Recovery

**Answer:** B

**Explanation:**

Detection defenses include logging as well as monitoring, measuring, auditing, detecting viruses and intrusion. Examples of containment defenses are awareness, training and physical security defenses. Examples of reaction defenses are incident response, policy and procedure change, and control enhancement. Examples of recovery defenses are backups and restorations, failover and remote sites, and business continuity plans and disaster recovery plans.

#### **NEW QUESTION 62**

An information security manager at a global organization has to ensure that the local information security program will initially ensure compliance with the:

- A. corporate data privacy policy
- B. data privacy policy where data are collected
- C. data privacy policy of the headquarters' country
- D. data privacy directive applicable globally

**Answer:** B

**Explanation:**

As a subsidiary, the local entity will have to comply with the local law for data collected in the country. Senior management will be accountable for this legal compliance. The policy, being internal, cannot supersede the local law. Additionally, with local regulations differing from the country in which the organization is headquartered, it is improbable that a group wide policy will address all the local legal requirements. In case of data collected locally (and potentially transferred to a country with a different data privacy regulation), the local law applies, not the law applicable to the head office. The data privacy laws are country-specific.

#### **NEW QUESTION 65**

Which of the following represents the MAJOR focus of privacy regulations?

- A. Unrestricted data mining
- B. Identity theft
- C. Human rights protection
- D. Identifiable personal data

**Answer:** D

**Explanation:**

Protection of identifiable personal data is the major focus of recent privacy regulations such as the Health Insurance Portability and Accountability Act (HIPAA). Data mining is an accepted tool for ad hoc reporting; it could pose a threat to privacy only if it violates regulator's provisions. Identity theft is a potential consequence of privacy violations but not the main focus of many regulations. Human rights addresses privacy issues but is not the main focus of regulations.

#### **NEW QUESTION 70**

Developing a successful business case for the acquisition of information security software products can BEST be assisted by:

- A. assessing the frequency of incident
- B. quantifying the cost of control failure
- C. calculating return on investment (ROI) projection
- D. comparing spending against similar organization

**Answer:** C

**Explanation:**

Calculating the return on investment (ROI) will most closely align security with the impact on the bottom line. Frequency and cost of incidents are factors that go into determining the impact on the business but, by themselves, are insufficient. Comparing spending against similar organizations can be problematic since similar organizations may have different business goals and appetites for risk.

#### **NEW QUESTION 74**

Which of the following situations would MOST inhibit the effective implementation of security governance:

- A. The complexity of technology
- B. Budgetary constraints
- C. Conflicting business priorities
- D. High-level sponsorship

**Answer:** D

**Explanation:**

The need for senior management involvement and support is a key success factor for the implementation of appropriate security governance. Complexity of technology, budgetary constraints and conflicting business priorities are realities that should be factored into the governance model of the organization, and should not be regarded as inhibitors.

#### **NEW QUESTION 79**

Which of the following should be included in an annual information security budget that is submitted for management approval?

- A. A cost-benefit analysis of budgeted resources
- B. All of the resources that are recommended by the business
- C. Total cost of ownership (TCO)
- D. Baseline comparisons

**Answer:** A

**Explanation:**

A brief explanation of the benefit of expenditures in the budget helps to convey the context of how the purchases that are being requested meet goals and objectives, which in turn helps build credibility for the information security function or program. Explanations of benefits also help engage senior management in the support of the information security program. While the budget should consider all inputs and recommendations that are received from the business, the budget that is ultimately submitted to management for approval should include only those elements that are intended for purchase. TCO may be requested by management and may be provided in an addendum to a given purchase request, but is not usually included in an annual budget. Baseline comparisons (cost comparisons with other companies or industries) may be useful in developing a budget or providing justification in an internal review for an individual purchase, but would not be included with a request for budget approval.

#### **NEW QUESTION 82**

The MOST appropriate role for senior management in supporting information security is the:

- A. evaluation of vendors offering security product
- B. assessment of risks to the organization
- C. approval of policy statements and funding
- D. monitoring adherence to regulatory requirement

**Answer:** C

**Explanation:**



Since the members of senior management are ultimately responsible for information security, they are the ultimate decision makers in terms of governance and direction. They are responsible for approval of major policy statements and requests to fund the information security practice. Evaluation of vendors, assessment of risks and monitoring compliance with regulatory requirements are day-to-day responsibilities of the information security manager; in some organizations, business management is involved in these other activities, though their primary role is direction and governance.

**NEW QUESTION 86**

Which of the following requirements would have the lowest level of priority in information security?

- A. Technical
- B. Regulatory
- C. Privacy
- D. Business

**Answer:** A

**Explanation:**

Information security priorities may, at times, override technical specifications, which then must be rewritten to conform to minimum security standards. Regulatory and privacy requirements are government-mandated and, therefore, not subject to override. The needs of the business should always take precedence in deciding information security priorities.

**NEW QUESTION 90**

When developing an information security program, what is the MOST useful source of information for determining available resources?

- A. Proficiency test
- B. Job descriptions
- C. Organization chart
- D. Skills inventory

**Answer:** D

**Explanation:**

A skills inventory would help identify- the available resources, any gaps and the training requirements for developing resources. Proficiency testing is useful but only with regard to specific technical skills. Job descriptions would not be as useful since they may be out of date or not sufficiently detailed. An organization chart would not provide the details necessary to determine the resources required for this activity.

**NEW QUESTION 95**

The MOST important component of a privacy policy is:

- A. notification
- B. warrantie
- C. liabilitie
- D. geographic coverag

**Answer:** A

**Explanation:**

Privacy policies must contain notifications and opt-out provisions: they are a high-level management statement of direction. They do not necessarily address warranties, liabilities or geographic coverage, which are more specific.

**NEW QUESTION 99**

Which of the following is MOST appropriate for inclusion in an information security strategy?

- A. Business controls designated as key controls
- B. Security processes, methods, tools and techniques
- C. Firewall rule sets, network defaults and intrusion detection system (IDS) settings
- D. Budget estimates to acquire specific security tools

**Answer:** B

**Explanation:**

A set of security objectives, processes, methods, tools and techniques together constitute a security strategy. Although IT and business governance are intertwined, business controls may not be included in a security strategy. Budgets will generally not be included in an information security strategy. Additionally, until information security strategy is formulated and implemented, specific tools will not be identified and specific cost estimates will not be available. Firewall rule sets, network defaults and intrusion detection system (IDS) settings are technical details subject to periodic change, and are not appropriate content for a strategy document.

**NEW QUESTION 103**

Which of the following would be the MOST important goal of an information security governance program?

- A. Review of internal control mechanisms
- B. Effective involvement in business decision making
- C. Total elimination of risk factors

D. Ensuring trust in data

**Answer:** D

**Explanation:**

The development of trust in the integrity of information among stakeholders should be the primary goal of information security governance. Review of internal control mechanisms relates more to auditing, while the total elimination of risk factors is not practical or possible. Proactive involvement in business decision making implies that security needs dictate business needs when, in fact, just the opposite is true. Involvement in decision making is important only to ensure business data integrity so that data can be trusted.

#### **NEW QUESTION 105**

A security manager meeting the requirements for the international flow of personal data will need to ensure:

- A. a data processing agreemen
- B. a data protection registratio
- C. the agreement of the data subject
- D. subject access procedure

**Answer:** C

**Explanation:**

Whenever personal data are transferred across national boundaries, the awareness and agreement of the data subjects are required. Choices A, B and D are supplementary data protection requirements that are not key for international data transfer.

#### **NEW QUESTION 107**

The MOST useful way to describe the objectives in the information security strategy is through:

- A. attributes and characteristics of the 'desired state.'
- B. overall control objectives of the security progra
- C. mapping the IT systems to key business processe
- D. calculation of annual loss expectation

**Answer:** A

**Explanation:**

Security strategy will typically cover a wide variety of issues, processes, technologies and outcomes that can best be described by a set of characteristics and attributes that are desired. Control objectives are developed after strategy and policy development. Mapping IT systems to key business processes does not address strategy issues. Calculation of annual loss expectations would not describe the objectives in the information security strategy.

#### **NEW QUESTION 108**

Which of the following would be the BEST option to improve accountability for a system administrator who has security functions?

- A. Include security responsibilities in the job description
- B. Require the administrator to obtain security certification
- C. Train the system administrator on penetration testing and vulnerability assessment
- D. Train the system administrator on risk assessment

**Answer:** A

**Explanation:**

The first step to improve accountability is to include security responsibilities in a job description. This documents what is expected and approved by the organization. The other choices are methods to ensure that the system administrator has the training to fulfill the responsibilities included in the job description.

#### **NEW QUESTION 109**

Which of the following characteristics is MOST important when looking at prospective candidates for the role of chief information security officer (CISO)?

- A. Knowledge of information technology platforms, networks and development methodologies
- B. Ability to understand and map organizational needs to security technologies
- C. Knowledge of the regulatory environment and project management techniques
- D. Ability to manage a diverse group of individuals and resources across an organization

**Answer:** B

**Explanation:**

Information security will be properly aligned with the goals of the business only with the ability to understand and map organizational needs to enable security technologies. All of the other choices are important but secondary to meeting business security needs.

#### **NEW QUESTION 110**

When developing incident response procedures involving servers hosting critical applications, which of the following should be the FIRST to be notified?

- A. Business management
- B. Operations manager

- C. Information security manager
- D. System users

**Answer:** C

**Explanation:**

The escalation process in critical situations should involve the information security manager as the first contact so that appropriate escalation steps are invoked as necessary. Choices A, B and D would be notified accordingly.

#### NEW QUESTION 114

Relationships among security technologies are BEST defined through which of the following?

- A. Security metrics
- B. Network topology
- C. Security architecture
- D. Process improvement models

**Answer:** C

**Explanation:**

Security architecture explains the use and relationships of security mechanisms. Security metrics measure improvement within the security practice but do not explain the use and relationships of security technologies. Process improvement models and network topology diagrams also do not describe the use and relationships of these technologies.

#### NEW QUESTION 118

The BEST way to justify the implementation of a single sign-on (SSO) product is to use:

- A. return on investment (RO
- B. a vulnerability assessmen
- C. annual loss expectancy (ALE).
- D. a business cas

**Answer:** D

**Explanation:**

A business case shows both direct and indirect benefits, along with the investment required and the expected returns, thus making it useful to present to senior management. Return on investment (ROD would only provide the costs needed to preclude specific risks, and would not provide other indirect benefits such as process improvement and learning. A vulnerability assessment is more technical in nature and would only identify and assess the vulnerabilities. This would also not provide insights on indirect benefits. Annual loss expectancy (ALE) would not weigh the advantages of implementing single sign-on (SSO) in comparison to the cost of implementation.

#### NEW QUESTION 121

Who should drive the risk analysis for an organization?

- A. Senior management
- B. Security manager
- C. Quality manager
- D. Legal department

**Answer:** B

**Explanation:**

Although senior management should support and sponsor a risk analysis, the know-how and the management of the project will be with the security department. Quality management and the legal department will contribute to the project.

#### NEW QUESTION 124

Which of the following BEST describes an information security manager's role in a multidisciplinary team that will address a new regulatory requirement regarding operational risk?

- A. Ensure that all IT risks are identified
- B. Evaluate the impact of information security risks
- C. Demonstrate that IT mitigating controls are in place
- D. Suggest new IT controls to mitigate operational risk

**Answer:** B

**Explanation:**

The job of the information security officer on such a team is to assess the risks to the business operation. Choice A is incorrect because information security is not limited to IT issues. Choice C is incorrect because at the time a team is formed to assess risk, it is premature to assume that any demonstration of IT controls will mitigate business operations risk. Choice D is incorrect because it is premature at the time of the formation of the team to assume that any suggestion of new IT controls will mitigate business operational risk.

**NEW QUESTION 129**

An information security manager at a global organization that is subject to regulation by multiple governmental jurisdictions with differing requirements should:

- A. bring all locations into conformity with the aggregate requirements of all governmental jurisdiction
- B. establish baseline standards for all locations and add supplemental standards as require
- C. bring all locations into conformity with a generally accepted set of industry best practice
- D. establish a baseline standard incorporating those requirements that all jurisdictions have in commo

**Answer: B**

**Explanation:**

It is more efficient to establish a baseline standard and then develop additional standards for locations that must meet specific requirements. Seeking a lowest common denominator or just using industry best practices may cause certain locations to fail regulatory compliance. The opposite approach—forcing all locations to be in compliance with the regulations places an undue burden on those locations.

**NEW QUESTION 133**

To determine the selection of controls required to meet business objectives, an information security manager should:

- A. prioritize the use of role-based access control
- B. focus on key control
- C. restrict controls to only critical application
- D. focus on automated control

**Answer: B**

**Explanation:**

Key controls primarily reduce risk and are most effective for the protection of information assets. The other choices could be examples of possible key controls.

**NEW QUESTION 135**

One way to determine control effectiveness is by determining:

- A. whether it is preventive, detective or compensator
- B. the capability of providing notification of failur
- C. the test results of intended objective
- D. the evaluation and analysis of reliabilit

**Answer: C**

**Explanation:**

Control effectiveness requires a process to verify that the control process worked as intended. Examples such as dual-control or dual-entry bookkeeping provide verification and assurance that the process operated as intended. The type of control is not relevant, and notification of failure is not determinative of control strength. Reliability is not an indication of control strength; weak controls can be highly reliable, even if they are ineffective controls.

**NEW QUESTION 138**

The value of information assets is BEST determined by:

- A. individual business manager
- B. business systems analyst
- C. information security managemen
- D. industry averages benchmarkin

**Answer: A**

**Explanation:**

Individual business managers are in the best position to determine the value of information assets since they are most knowledgeable of the assets' impact on the business. Business systems developers and information security managers are not as knowledgeable regarding the impact on the business. Peer companies' industry averages do not necessarily provide detailed enough information nor are they as relevant to the unique aspects of the business.

**NEW QUESTION 142**

The BEST strategy for risk management is to:

- A. achieve a balance between risk and organizational goal
- B. reduce risk to an acceptable leve
- C. ensure that policy development properly considers organizational risk
- D. ensure that all unmitigated risks are accepted by managemen

**Answer: B**

**Explanation:**

The best strategy for risk management is to reduce risk to an acceptable level, as this will take into account the organization's appetite for risk and the fact that it would not be practical to eliminate all risk. Achieving balance between risk and organizational goals is not always practical. Policy development must consider organizational risks as well as business objectives. It may be prudent to ensure that management understands and accepts risks that it is not willing to mitigate, but

that is a practice and is not sufficient to be considered a strategy.

**NEW QUESTION 147**

Which of the following types of information would the information security manager expect to have the LOWEST level of security protection in a large, multinational enterprise?

- A. Strategic business plan
- B. Upcoming financial results
- C. Customer personal information
- D. Previous financial results

**Answer: D**

**Explanation:**

Previous financial results are public; all of the other choices are private information and should only be accessed by authorized entities.

**NEW QUESTION 150**

Previously accepted risk should be:

- A. re-assessed periodically since the risk can be escalated to an unacceptable level due to revised condition
- B. accepted permanently since management has already spent resources (time and labor) to conclude that the risk level is acceptable
- C. avoided next time since risk avoidance provides the best protection to the company
- D. removed from the risk log once it is accepted

**Answer: A**

**Explanation:**

Acceptance of risk should be regularly reviewed to ensure that the rationale for the initial risk acceptance is still valid within the current business context. The rationale for initial risk acceptance may no longer be valid due to change(s) and, hence, risk cannot be accepted permanently. Risk is an inherent part of business and it is impractical and costly to eliminate all risk. Even risks that have been accepted should be monitored for changing conditions that could alter the original decision.

**NEW QUESTION 154**

The security responsibility of data custodians in an organization will include:

- A. assuming overall protection of information asset
- B. determining data classification level
- C. implementing security controls in products they install
- D. ensuring security measures are consistent with policy

**Answer: D**

**Explanation:**

Security responsibilities of data custodians within an organization include ensuring that appropriate security measures are maintained and are consistent with organizational policy. Executive management holds overall responsibility for protection of the information assets. Data owners determine data classification levels for information assets so that appropriate levels of controls can be provided to meet the requirements relating to confidentiality, integrity and availability. Implementation of information security in products is the responsibility of the IT developers.

**NEW QUESTION 156**

Which would be one of the BEST metrics an information security manager can employ to effectively evaluate the results of a security program?

- A. Number of controls implemented
- B. Percent of control objectives accomplished
- C. Percent of compliance with the security policy
- D. Reduction in the number of reported security incidents

**Answer: B**

**Explanation:**

Control objectives are directly related to business objectives; therefore, they would be the best metrics. Number of controls implemented does not have a direct relationship with the results of a security program. Percentage of compliance with the security policy and reduction in the number of security incidents are not as broad as choice B.

**NEW QUESTION 161**

After assessing and mitigating the risks of a web application, who should decide on the acceptance of residual application risks?

- A. Information security officer
- B. Chief information officer (CIO)
- C. Business owner
- D. Chief executive officer (CEO)

**Answer: C**



**Explanation:**

The business owner of the application needs to understand and accept the residual application risks.

**NEW QUESTION 162**

Which of the following steps in conducting a risk assessment should be performed FIRST?

- A. Identity business assets
- B. Identify business risks
- C. Assess vulnerabilities
- D. Evaluate key controls

**Answer: A**

**Explanation:**

Risk assessment first requires one to identify the business assets that need to be protected before identifying the threats. The next step is to establish whether those threats represent business risk by identifying the likelihood and effect of occurrence, followed by assessing the vulnerabilities that may affect the security of the asset. This process establishes the control objectives against which key controls can be evaluated.

**NEW QUESTION 167**

A successful risk management program should lead to:

- A. optimization of risk reduction efforts against cos
- B. containment of losses to an annual budgeted amoun
- C. identification and removal of all man-made threat
- D. elimination or transference of all organizational risk

**Answer: A**

**Explanation:**

Successful risk management should lead to a breakeven point of risk reduction and cost. The other options listed are not achievable. Threats cannot be totally removed or transferred, while losses cannot be budgeted in advance with absolute certainty.

**NEW QUESTION 169**

When the computer incident response team (CIRT) finds clear evidence that a hacker has penetrated the corporate network and modified customer information, an information security manager should FIRST notify:

- A. the information security steering committe
- B. customers who may be impacte
- C. data owners who may be impacte
- D. regulatory- agencies overseeing privac

**Answer: C**

**Explanation:**

The data owners should be notified first so they can take steps to determine the extent of the damage and coordinate a plan for corrective action with the computer incident response team. Other parties will be notified later as required by corporate policy and regulatory requirements.

**NEW QUESTION 170**

After obtaining commitment from senior management, which of the following should be completed NEXT when establishing an information security program?

- A. Define security metrics
- B. Conduct a risk assessment
- C. Perform a gap analysis
- D. Procure security tools

**Answer: B**

**Explanation:**

When establishing an information security program, conducting a risk assessment is key to identifying the needs of the organization and developing a security strategy. Defining security metrics, performing a gap analysis and procuring security tools are all subsequent considerations.

**NEW QUESTION 171**

Which of the following is the PRIMARY reason for implementing a risk management program?

- A. Allows the organization to eliminate risk
- B. Is a necessary part of management's due diligence
- C. Satisfies audit and regulatory requirements
- D. Assists in incrementing the return on investment (ROD

**Answer: B**

**Explanation:**

The key reason for performing risk management is that it is part of management's due diligence. The elimination of all risk is not possible. Satisfying audit and regulatory requirements is of secondary importance. A risk management program may or may not increase the return on investment (ROD).

**NEW QUESTION 176**

An organization has a process in place that involves the use of a vendor. A risk assessment was completed during the development of the process. A year after the implementation a monetary decision has been made to use a different vendor. What, if anything, should occur?

- A. Nothing, since a risk assessment was completed during developmen
- B. A vulnerability assessment should be conducte
- C. A new risk assessment should be performe
- D. The new vendor's SAS 70 type II report should be reviewe

**Answer:** C

**Explanation:**

The risk assessment process is continual and any changes to an established process should include a new- risk assessment. While a review of the SAS 70 report and a vulnerability assessment may be components of a risk assessment, neither would constitute sufficient due diligence on its own.

**NEW QUESTION 181**

Which of the following BEST describes the scope of risk analysis?

- A. Key financial systems
- B. Organizational activities
- C. Key systems and infrastructure
- D. Systems subject to regulatory compliance

**Answer:** B

**Explanation:**

Risk analysis should include all organizational activities. It should not be limited to subsets of systems or just systems and infrastructure.

**NEW QUESTION 186**

A risk mitigation report would include recommendations for:

- A. assessmen
- B. acceptance
- C. evaluatio
- D. quantificatio

**Answer:** B

**Explanation:**

Acceptance of a risk is an alternative to be considered in the risk mitigation process. Assessment, evaluation and risk quantification are components of the risk analysis process that are completed prior to determining risk mitigation solutions.

**NEW QUESTION 188**

The recovery point objective (RPO) requires which of the following?

- A. Disaster declaration
- B. Before-image restoration
- C. System restoration
- D. After-image processing

**Answer:** B

**Explanation:**

The recovery point objective (RPO) is the point in the processing flow at which system recovery should occur. This is the predetermined state of the application processing and data used to restore the system and to continue the processing flow. Disaster declaration is independent of this processing checkpoint. Restoration of the system can occur at a later date, as does the return to normal, after-image processing.

**NEW QUESTION 189**

An information security manager is advised by contacts in law enforcement that there is evidence that his/ her company is being targeted by a skilled gang of hackers known to use a variety of techniques, including social engineering and network penetration. The FIRST step that the security manager should take is to:

- A. perform a comprehensive assessment of the organization's exposure to the hacker's technique
- B. initiate awareness training to counter social engineerin
- C. immediately advise senior management of the elevated ris
- D. increase monitoring activities to provide early detection of intrusio

**Answer:** C

**Explanation:**

Information about possible significant new risks from credible sources should be provided to management along with advice on steps that need to be taken to counter the threat. The security manager should assess the risk, but senior management should be immediately advised. It may be prudent to initiate an awareness campaign subsequent to sounding the alarm if awareness training is not current. Monitoring activities should also be increased.

**NEW QUESTION 192**

Who would be in the BEST position to determine the recovery point objective (RPO) for business applications?

- A. Business continuity coordinator
- B. Chief operations officer (COO)
- C. Information security manager
- D. Internal audit

**Answer:** B

**Explanation:**

The recovery point objective (RPO) is the processing checkpoint to which systems are recovered. In addition to data owners, the chief operations officer (COO) is the most knowledgeable person to make this decision. It would be inappropriate for the information security manager or an internal audit to determine the RPO because they are not directly responsible for the data or the operation.

**NEW QUESTION 196**

Which of the following measures would be MOST effective against insider threats to confidential information?

- A. Role-based access control
- B. Audit trail monitoring
- C. Privacy policy
- D. Defense-in-depth

**Answer:** A

**Explanation:**

Role-based access control provides access according to business needs; therefore, it reduces unnecessary- access rights and enforces accountability. Audit trail monitoring is a detective control, which is 'after the fact.' Privacy policy is not relevant to this risk. Defense-in-depth primarily focuses on external threats

**NEW QUESTION 200**

Which of the following security activities should be implemented in the change management process to identify key vulnerabilities introduced by changes?

- A. Business impact analysis (BIA)
- B. Penetration testing
- C. Audit and review
- D. Threat analysis

**Answer:** B

**Explanation:**

Penetration testing focuses on identifying vulnerabilities. None of the other choices would identify vulnerabilities introduced by changes.

**NEW QUESTION 204**

Data owners are PRIMARILY responsible for establishing risk mitigation methods to address which of the following areas?

- A. Platform security
- B. Entitlement changes
- C. Intrusion detection
- D. Antivirus controls

**Answer:** B

**Explanation:**

Data owners are responsible for assigning user entitlements and approving access to the systems for which they are responsible. Platform security, intrusion detection and antivirus controls are all within the responsibility of the information security manager.

**NEW QUESTION 205**

A common concern with poorly written web applications is that they can allow an attacker to:

- A. gain control through a buffer overflo
- B. conduct a distributed denial of service (DoS) attac
- C. abuse a race conditio
- D. inject structured query language (SQL) statement

**Answer:** D

**Explanation:**

Structured query language (SQL) injection is one of the most common and dangerous web application vulnerabilities. Buffer overflows and race conditions are very difficult to find and exploit on web applications. Distributed denial of service (DoS) attacks have nothing to do with the quality of a web application.

**NEW QUESTION 208**

Which of the following results from the risk assessment process would BEST assist risk management decision making?

- A. Control risk
- B. Inherent risk
- C. Risk exposure
- D. Residual risk

**Answer: D**

**Explanation:**

Residual risk provides management with sufficient information to decide to the level of risk that an organization is willing to accept. Control risk is the risk that a control may not succeed in preventing an undesirable event. Risk exposure is the likelihood of an undesirable event occurring. Inherent risk is an important factor to be considered during the risk assessment.

**NEW QUESTION 213**

The recovery time objective (RTO) is reached at which of the following milestones?

- A. Disaster declaration
- B. Recovery of the backups
- C. Restoration of the system
- D. Return to business as usual processing

**Answer: C**

**Explanation:**

The recovery time objective (RTO) is based on the amount of time required to restore a system; disaster declaration occurs at the beginning of this period. Recovery of the backups occurs shortly after the beginning of this period. Return to business as usual processing occurs significantly later than the RTO. RTO is an "objective," and full restoration may or may not coincide with the RTO. RTO can be the minimum acceptable operational level, far short of normal operations.

**NEW QUESTION 215**

Which of the following are the essential ingredients of a business impact analysis (BIA)?

- A. Downtime tolerance, resources and criticality
- B. Cost of business outages in a year as a factor of the security budget
- C. Business continuity testing methodology being deployed
- D. Structure of the crisis management team

**Answer: A**

**Explanation:**

The main purpose of a BIA is to measure the downtime tolerance, associated resources and criticality of a business function. Options B, C and D are all associated with business continuity planning, but are not related to the BIA.

**NEW QUESTION 216**

The MOST important reason for conducting periodic risk assessments is because:

- A. risk assessments are not always precis
- B. security risks are subject to frequent chang
- C. reviewers can optimize and reduce the cost of control
- D. it demonstrates to senior management that the security function can add valu

**Answer: B**

**Explanation:**

Risks are constantly changing. A previously conducted risk assessment may not include measured risks that have been introduced since the last assessment. Although an assessment can never be perfect and invariably contains some errors, this is not the most important reason for periodic reassessment. The fact that controls can be made more efficient to reduce costs is not sufficient. Finally, risk assessments should not be performed merely to justify the existence of the security function.

**NEW QUESTION 220**

Which of the following is the MOST usable deliverable of an information security risk analysis?

- A. Business impact analysis (BIA) report
- B. List of action items to mitigate risk
- C. Assignment of risks to process owners
- D. Quantification of organizational risk

**Answer: B**

**Explanation:**

Although all of these are important, the list of action items is used to reduce or transfer the current level of risk. The other options materially contribute to the way the actions are implemented.

**NEW QUESTION 225**

To ensure that payroll systems continue on in an event of a hurricane hitting a data center, what would be the FIRST crucial step an information security manager would take in ensuring business continuity planning?

- A. Conducting a qualitative and quantitative risk analysis
- B. Assigning value to the asset
- C. Weighing the cost of implementing the plan vs. financial loss
- D. financial loss
- E. Conducting a business impact analysis (BIA).

**Answer:** D

**Explanation:**

BIA is an essential component of an organization's business continuity plan; it includes an exploratory component to reveal any vulnerabilities and a planning component to develop strategies for minimizing risk. It is the first crucial step in business continuity planning. Qualitative and quantitative risk analysis will have been completed to define the dangers to individuals, businesses and government agencies posed by potential natural and human-caused adverse events. Assigning value to assets is part of the BIA process. Weighing the cost of implementing the plan vs. financial loss is another part of the BIA.

**NEW QUESTION 229**

After a risk assessment, it is determined that the cost to mitigate the risk is much greater than the benefit to be derived. The information security manager should recommend to business management that the risk be:

- A. transferred
- B. treated
- C. accepted
- D. terminated

**Answer:** C

**Explanation:**

When the cost of control is more than the cost of the risk, the risk should be accepted. Transferring, treating or terminating the risk is of limited benefit if the cost of that control is more than the cost of the risk itself.

**NEW QUESTION 230**

Which of the following techniques MOST clearly indicates whether specific risk-reduction controls should be implemented?

- A. Countermeasure cost-benefit analysis
- B. Penetration testing
- C. Frequent risk assessment programs
- D. Annual loss expectancy (ALE) calculation

**Answer:** A

**Explanation:**

In a countermeasure cost-benefit analysis, the annual cost of safeguards is compared with the expected cost of loss. This can then be used to justify a specific control measure. Penetration testing may indicate the extent of a weakness but, by itself, will not establish the cost/benefit of a control. Frequent risk assessment programs will certainly establish what risk exists but will not determine the maximum cost of controls. Annual loss expectancy (ALE) is a measure which will contribute to the value of the risk but, alone, will not justify a control.

**NEW QUESTION 234**

Which of the following is the MOST effective way to treat a risk such as a natural disaster that has a low probability and a high impact level?

- A. Implement countermeasure
- B. Eliminate the risk
- C. Transfer the risk
- D. Accept the risk

**Answer:** C

**Explanation:**

Risks are typically transferred to insurance companies when the probability of an incident is low but the impact is high. Examples include: hurricanes, tornados and earthquakes. Implementing countermeasures may not be the most cost-effective approach to security management. Eliminating the risk may not be possible. Accepting the risk would leave the organization vulnerable to a catastrophic disaster which may cripple or ruin the organization. It would be more cost effective to pay recurring insurance costs than to be affected by a disaster from which the organization cannot financially recover.

**NEW QUESTION 237**

The criticality and sensitivity of information assets is determined on the basis of:



- A. threat assessmen
- B. vulnerability assessmen
- C. resource dependency assessmen
- D. impact assessmen

**Answer:** D

**Explanation:**

The criticality and sensitivity of information assets depends on the impact of the probability of the threats exploiting vulnerabilities in the asset, and takes into consideration the value of the assets and the impairment of the value. Threat assessment lists only the threats that the information asset is exposed to. It does not consider the value of the asset and impact of the threat on the value. Vulnerability assessment lists only the vulnerabilities inherent in the information asset that can attract threats. It does not consider the value of the asset and the impact of perceived threats on the value. Resource dependency assessment provides process needs but not impact.

#### NEW QUESTION 238

The valuation of IT assets should be performed by:

- A. an IT security manage
- B. an independent security consultan
- C. the chief financial officer (CFO).
- D. the information owne

**Answer:** D

**Explanation:**

Information asset owners are in the best position to evaluate the value added by the IT asset under review within a business process, thanks to their deep knowledge of the business processes and of the functional IT requirements. An IT security manager is an expert of the IT risk assessment methodology and IT asset valuation mechanisms. However, the manager could not have a deep understanding of all the business processes of the firm. An IT security subject matter expert will take part of the process to identify threats and vulnerabilities and will collaborate with the business information asset owner to define the risk profile of the asset. A chief financial officer (CFO) will have an overall costs picture but not detailed enough to evaluate the value of each IT asset.

#### NEW QUESTION 241

A security risk assessment exercise should be repeated at regular intervals because:

- A. business threats are constantly changin
- B. omissions in earlier assessments can be adresse
- C. repetitive assessments allow various methodologie
- D. they help raise awareness on security in the busines

**Answer:** A

**Explanation:**

As business objectives and methods change, the nature and relevance of threats change as well. Choice B does not, by itself, justify regular reassessment. Choice C is not necessarily true in all cases. Choice D is incorrect because there are better ways of raising security awareness than by performing a risk assessment.

#### NEW QUESTION 245

A risk management program should reduce risk to:

- A. zer
- B. an acceptable leve
- C. an acceptable percent of revenu
- D. an acceptable probability of occurrenc

**Answer:** B

**Explanation:**

Risk should be reduced to an acceptable level based on the risk preference of the organization. Reducing risk to zero is impractical and could be cost-prohibitive. Tying risk to a percentage of revenue is inadvisable since there is no direct correlation between the two. Reducing the probability of risk occurrence may not always be possible, as in the ease of natural disasters. The focus should be on reducing the impact to an acceptable level to the organization, not reducing the probability of the risk.

#### NEW QUESTION 249

The MOST effective way to incorporate risk management practices into existing production systems is through:

- A. policy developmen
- B. change managemen
- C. awareness trainin
- D. regular monitorin

**Answer:** B

**Explanation:**

Change is a process in which new risks can be introduced into business processes and systems. For this reason, risk management should be an integral

component of the change management process. Policy development, awareness training and regular monitoring, although all worthwhile activities, are not as effective as change management.

**NEW QUESTION 253**

Which of the following steps should be performed FIRST in the risk assessment process?

- A. Staff interviews
- B. Threat identification
- C. Asset identification and valuation
- D. Determination of the likelihood of identified risks

**Answer: C**

**Explanation:**

The first step in the risk assessment methodology is a system characterization, or identification and valuation, of all of the enterprise's assets to define the boundaries of the assessment. Interviewing is a valuable tool to determine qualitative information about an organization's objectives and tolerance for risk. Interviews are used in subsequent steps. Identification of threats comes later in the process and should not be performed prior to an inventory since many possible threats will not be applicable if there is no asset at risk. Determination of likelihood comes later in the risk assessment process.

**NEW QUESTION 258**

Which of the following groups would be in the BEST position to perform a risk analysis for a business?

- A. External auditors
- B. A peer group within a similar business
- C. Process owners
- D. A specialized management consultant

**Answer: C**

**Explanation:**

Process owners have the most in-depth knowledge of risks and compensating controls within their environment. External parties do not have that level of detailed knowledge on the inner workings of the business. Management consultants are expected to have the necessary skills in risk analysis techniques but are still less effective than a group with intimate knowledge of the business.

**NEW QUESTION 262**

A risk management approach to information protection is:

- A. managing risks to an acceptable level, commensurate with goals and objective
- B. accepting the security posture provided by commercial security product
- C. implementing a training program to educate individuals on information protection and risk
- D. managing risk tools to ensure that they assess all information protection vulnerabilities

**Answer: A**

**Explanation:**

Risk management is identifying all risks within an organization, establishing an acceptable level of risk and effectively managing risks which may include mitigation or transfer. Accepting the security- posture provided by commercial security products is an approach that would be limited to technology components and may not address all business operations of the organization. Education is a part of the overall risk management process. Tools may be limited to technology and would not address non-technology risks.

**NEW QUESTION 267**

When implementing security controls, an information security manager must PRIMARILY focus on:

- A. minimizing operational impact
- B. eliminating all vulnerabilities
- C. usage by similar organization
- D. certification from a third party

**Answer: A**

**Explanation:**

Security controls must be compatible with business needs. It is not feasible to eliminate all vulnerabilities. Usage by similar organizations does not guarantee that controls are adequate. Certification by a third party is important, but not a primary concern.

**NEW QUESTION 270**

Which of the following would be MOST relevant to include in a cost-benefit analysis of a two-factor authentication system?

- A. Annual loss expectancy (ALE) of incidents
- B. Frequency of incidents
- C. Total cost of ownership (TCO)
- D. Approved budget for the project

**Answer: C**

**Explanation:**

The total cost of ownership (TCO) would be the most relevant piece of information in that it would establish a cost baseline and it must be considered for the full life cycle of the control. Annual loss expectancy (ALE) and the frequency of incidents could help measure the benefit, but would have more of an indirect relationship as not all incidents may be mitigated by implementing a two-factor authentication system. The approved budget for the project may have no bearing on what the project may actually cost.

**NEW QUESTION 271**

What is the BEST technique to determine which security controls to implement with a limited budget?

- A. Risk analysis
- B. Annualized loss expectancy (ALE) calculations
- C. Cost-benefit analysis
- D. Impact analysis

**Answer: C**

**Explanation:**

Cost-benefit analysis is performed to ensure that the cost of a safeguard does not outweigh its benefit and that the best safeguard is provided for the cost of implementation. Risk analysis identifies the risks and suggests appropriate mitigation. The annualized loss expectancy (ALE) is a subset of a cost-benefit analysis. Impact analysis would indicate how much could be lost if a specific threat occurred.

**NEW QUESTION 274**

Information security managers should use risk assessment techniques to:

- A. justify selection of risk mitigation strategies
- B. maximize the return on investment (ROI)
- C. provide documentation for auditors and regulators
- D. quantify risks that would otherwise be subjective

**Answer: A**

**Explanation:**

Information security managers should use risk assessment techniques to justify and implement a risk mitigation strategy as efficiently as possible. None of the other choices accomplishes that task, although they are important components.

**NEW QUESTION 277**

In a business impact analysis, the value of an information system should be based on the overall cost:

- A. of recovery
- B. to recreate
- C. if unavailable
- D. of emergency operation

**Answer: C**

**Explanation:**

The value of an information system should be based on the cost incurred if the system were to become unavailable. The cost to design or recreate the system is not as relevant since a business impact analysis measures the impact that would occur if an information system were to become unavailable. Similarly, the cost of emergency operations is not as relevant.

**NEW QUESTION 282**

When performing a qualitative risk analysis, which of the following will BEST produce reliable results?

- A. Estimated productivity losses
- B. Possible scenarios with threats and impacts
- C. Value of information assets
- D. Vulnerability assessment

**Answer: B**

**Explanation:**

Listing all possible scenarios that could occur, along with threats and impacts, will better frame the range of risks and facilitate a more informed discussion and decision. Estimated productivity losses, value of information assets and vulnerability assessments would not be sufficient on their own.

**NEW QUESTION 285**

Which of the following would BEST address the risk of data leakage?

- A. File backup procedures
- B. Database integrity checks
- C. Acceptable use policies
- D. Incident response procedures

**Answer:** C

**Explanation:**

Acceptable use policies are the best measure for preventing the unauthorized disclosure of confidential information. The other choices do not address confidentiality of information.

#### **NEW QUESTION 289**

When performing a risk assessment, the MOST important consideration is that:

- A. management supports risk mitigation effort
- B. annual loss expectations (ALEs) have been calculated for critical asset
- C. assets have been identified and appropriately value
- D. attack motives, means and opportunities be understoo

**Answer:** C

**Explanation:**

Identification and valuation of assets provides the basis for risk management efforts as it relates to the criticality and sensitivity of assets. Management support is always important, but is not relevant when determining the proportionality of risk management efforts. ALE calculations are only valid if assets have first been identified and appropriately valued. Motives, means and opportunities should already be factored in as a part of a risk assessment.

#### **NEW QUESTION 294**

When residual risk is minimized:

- A. acceptable risk is probabl
- B. transferred risk is acceptabl
- C. control risk is reduce
- D. risk is transferabl

**Answer:** A

**Explanation:**

Since residual risk is the risk that remains after putting into place an effective risk management program, it is probable that the organization will decide that it is an acceptable risk if sufficiently minimized. Transferred risk is risk that has been assumed by a third party, therefore its magnitude is not relevant. Accordingly, choices B and D are incorrect since transferred risk does not necessarily indicate whether risk is at an acceptable level. Minimizing residual risk will not reduce control risk.

#### **NEW QUESTION 295**

Which of the following will BEST prevent external security attacks?

- A. Static IP addressing
- B. Network address translation
- C. Background checks for temporary employees
- D. Securing and analyzing system access logs

**Answer:** B

**Explanation:**

Network address translation is helpful by having internal addresses that are nonroutable. Background checks of temporary employees are more likely to prevent an attack launched from within the enterprise. Static IP addressing does little to prevent an attack. Writing all computer logs to removable media does not help in preventing an attack.

#### **NEW QUESTION 298**

Which of the following risks is represented in the risk appetite of an organization?

- A. Control
- B. Inherent
- C. Residual
- D. Audit

**Answer:** C

**Explanation:**

Residual risk is unmanaged, i.e., inherent risk which remains uncontrolled. This is key to the organization's risk appetite and is the amount of residual risk that a business is living with that affects its viability. Hence, inherent risk is incorrect. Control risk, the potential for controls to fail, and audit risk, which relates only to audit's approach to their work, are not relevant in this context.

#### **NEW QUESTION 299**

A successful information security management program should use which of the following to determine the amount of resources devoted to mitigating exposures?

- A. Risk analysis results
- B. Audit report findings

- C. Penetration test results
- D. Amount of IT budget available

**Answer:** A

**Explanation:**

Risk analysis results are the most useful and complete source of information for determining the amount of resources to devote to mitigating exposures. Audit report findings may not address all risks and do not address annual loss frequency. Penetration test results provide only a limited view of exposures, while the IT budget is not tied to the exposures faced by the organization.

#### **NEW QUESTION 301**

Which two components PRIMARILY must be assessed in an effective risk analysis?

- A. Visibility and duration
- B. Likelihood and impact
- C. Probability and frequency
- D. Financial impact and duration

**Answer:** B

**Explanation:**

The probability or likelihood of the event and the financial impact or magnitude of the event must be assessed first. Duration refers to the length of the event; it is important in order to assess impact but is secondary. Once the likelihood is determined, the frequency is also important to determine overall impact.

#### **NEW QUESTION 303**

Which of the following is the MOST appropriate use of gap analysis?

- A. Evaluating a business impact analysis (BIA)
- B. Developing a balanced business scorecard
- C. Demonstrating the relationship between controls
- D. Measuring current state v
- E. desired future state

**Answer:** D

**Explanation:**

A gap analysis is most useful in addressing the differences between the current state and an ideal future state. It is not as appropriate for evaluating a business impact analysis (BIA), developing a balanced business scorecard or demonstrating the relationship between variables.

#### **NEW QUESTION 308**

The PRIMARY reason for assigning classes of sensitivity and criticality to information resources is to provide a basis for:

- A. determining the scope for inclusion in an information security progra
- B. defining the level of access control
- C. justifying costs for information resource
- D. determining the overall budget of an information security progra

**Answer:** B

**Explanation:**

The assigned class of sensitivity and criticality of the information resource determines the level of access controls to be put in place. The assignment of sensitivity and criticality takes place with the information assets that have already been included in the information security program and has only an indirect bearing on the costs to be incurred. The assignment of sensitivity and criticality contributes to, but does not decide, the overall budget of the information security program.

#### **NEW QUESTION 309**

Which of the following is the MOST effective solution for preventing internal users from modifying sensitive and classified information?

- A. Baseline security standards
- B. System access violation logs
- C. Role-based access controls
- D. Exit routines

**Answer:** C

**Explanation:**

Role-based access controls help ensure that users only have access to files and systems appropriate for their job role. Violation logs are detective and do not prevent unauthorized access. Baseline security standards do not prevent unauthorized access. Exit routines are dependent upon appropriate role-based access.

#### **NEW QUESTION 311**

Which of the following would be the BEST metric for the IT risk management process?

- A. Number of risk management action plans



- B. Percentage of critical assets with budgeted remedial
- C. Percentage of unresolved risk exposures
- D. Number of security incidents identified

**Answer:** B

**Explanation:**

Percentage of unresolved risk exposures and the number of security incidents identified contribute to the IT risk management process, but the percentage of critical assets with budgeted remedial is the most indicative metric. Number of risk management action plans is not useful for assessing the quality of the process.

#### **NEW QUESTION 314**

Who can BEST advocate the development of and ensure the success of an information security program?

- A. Internal auditor
- B. Chief operating officer (COO)
- C. Steering committee
- D. IT management

**Answer:** C

**Explanation:**

Senior management represented in the security steering committee is in the best position to advocate the establishment of and continued support for an information security program. The chief operating officer (COO) will be a member of that committee. An internal auditor is a good advocate but is secondary to the influence of senior management. IT management has a lesser degree of influence and would also be part of the steering committee.

#### **NEW QUESTION 315**

When a user employs a client-side digital certificate to authenticate to a web server through Secure Socket Layer (SSL), confidentiality is MOST vulnerable to which of the following?

- A. IP spoofing
- B. Man-in-the-middle attack
- C. Repudiation
- D. Trojan

**Answer:** D

**Explanation:**

A Trojan is a program that gives the attacker full control over the infected computer, thus allowing the attacker to hijack, copy or alter information after authentication by the user. IP spoofing will not work because IP is not used as an authentication mechanism. Man-in-the-middle attacks are not possible if using SSL with client-side certificates. Repudiation is unlikely because client-side certificates authenticate the user.

#### **NEW QUESTION 316**

Which of the following is MOST important for a successful information security program?

- A. Adequate training on emerging security technologies
- B. Open communication with key process owners
- C. Adequate policies, standards and procedures
- D. Executive management commitment

**Answer:** D

**Explanation:**

Sufficient executive management support is the most important factor for the success of an information security program. Open communication, adequate training, and good policies and procedures, while important, are not as important as support from top management; they will not ensure success if senior management support is not present.

#### **NEW QUESTION 320**

Which of the following is the BEST metric for evaluating the effectiveness of security awareness training? The number of:

- A. password reset
- B. reported incident
- C. incidents resolved
- D. access rule violation

**Answer:** B

**Explanation:**

Reported incidents will provide an indicator of the awareness level of staff. An increase in reported incidents could indicate that the staff is paying more attention to security. Password resets and access rule violations may or may not have anything to do with awareness levels. The number of incidents resolved may not correlate to staff awareness.

#### **NEW QUESTION 323**

Which of the following is the MOST important risk associated with middleware in a client-server environment?

- A. Server patching may be prevented
- B. System backups may be incomplete
- C. System integrity may be affected
- D. End-user sessions may be hijacked

**Answer: C**

**Explanation:**

The major risk associated with middleware in a client-server environment is that system integrity may be adversely affected because of the very purpose of middleware, which is intended to support multiple operating environments interacting concurrently. Lack of proper software to control portability of data or programs across multiple platforms could result in a loss of data or program integrity. All other choices are less likely to occur.

#### **NEW QUESTION 327**

The BEST protocol to ensure confidentiality of transmissions in a business-to-customer (B2C) financial web application is:

- A. Secure Sockets Layer (SSL).
- B. Secure Shell (SSH).
- C. IP Security (IPSec).
- D. Secure/Multipurpose Internet Mail Extensions (S/MIME ).

**Answer: A**

**Explanation:**

Secure Sockets Layer (SSL) is a cryptographic protocol that provides secure communications providing end point authentication and communications privacy over the Internet. In typical use, all data transmitted between the customer and the business are, therefore, encrypted by the business's web server and remain confidential. SSH File Transfer Protocol (SFTP) is a network protocol that provides file transfer and manipulation functionality over any reliable data stream. It is typically used with the SSH-2 protocol to provide secure file transfer. IP Security (IPSec) is a standardized framework for securing Internet Protocol (IP) communications by encrypting and/or authenticating each IP packet in a data stream. There are two modes of IPSec operation: transport mode and tunnel mode. Secure/Multipurpose Internet Mail Extensions (S/MIME) is a standard for public key encryption and signing of e-mail encapsulated in MIME; it is not a web transaction protocol.

#### **NEW QUESTION 330**

Which of the following is the MOST appropriate frequency for updating antivirus signature files for antivirus software on production servers?

- A. Daily
- B. Weekly
- C. Concurrently with O/S patch updates
- D. During scheduled change control updates

**Answer: A**

**Explanation:**

New viruses are being introduced almost daily. The effectiveness of virus detection software depends on frequent updates to its virus signatures, which are stored on antivirus signature files so updates may be carried out several times during the day. At a minimum, daily updating should occur. Patches may occur less frequently. Weekly updates may potentially allow new viruses to infect the system.

#### **NEW QUESTION 333**

When a newly installed system for synchronizing passwords across multiple systems and platforms abnormally terminates without warning, which of the following should automatically occur FIRST?

- A. The firewall should block all inbound traffic during the outage
- B. All systems should block new logins until the problem is corrected
- C. Access control should fall back to no synchronized mode
- D. System logs should record all user activity for later analysis

**Answer: C**

**Explanation:**

The best mechanism is for the system to fallback to the original process of logging on individually to each system. Blocking traffic and new logins would be overly restrictive to the conduct of business, while recording all user activity would add little value.

#### **NEW QUESTION 336**

Primary direction on the impact of compliance with new regulatory requirements that may lead to major application system changes should be obtained from the:

- A. corporate internal auditor
- B. System developers/analyst
- C. key business process owner
- D. corporate legal counsel

**Answer: C**

**Explanation:**

Business process owners are in the best position to understand how new regulatory requirements may affect their systems. Legal counsel and infrastructure management, as well as internal auditors, would not be in as good a position to fully understand all ramifications.

**NEW QUESTION 340**

Which of the following is MOST effective in preventing the introduction of a code modification that may reduce the security of a critical business application?

- A. Patch management
- B. Change management
- C. Security metrics
- D. Version control

**Answer: B**

**Explanation:**

Change management controls the process of introducing changes to systems. Failure to have good change management may introduce new weaknesses into otherwise secure systems. Patch management corrects discovered weaknesses by applying a correction to the original program code. Security metrics provide a means for measuring effectiveness. Version control is a subset of change management.

**NEW QUESTION 345**

A test plan to validate the security controls of a new system should be developed during which phase of the project?

- A. Testing
- B. Initiation
- C. Design
- D. Development

**Answer: C**

**Explanation:**

In the design phase, security checkpoints are defined and a test plan is developed. The testing phase is too late since the system has already been developed and is in production testing. In the initiation phase, the basic security objective of the project is acknowledged. Development is the coding phase and is too late to consider test plans.

**NEW QUESTION 350**

An information security program should be sponsored by:

- A. infrastructure managemen
- B. the corporate audit departmen
- C. key business process owner
- D. information security managemen

**Answer: C**

**Explanation:**

The information security program should ideally be sponsored by business managers, as represented by key business process owners. Infrastructure management is not sufficiently independent and lacks the necessary knowledge regarding specific business requirements. A corporate audit department is not in as good a position to fully understand how an information security program needs to meet the needs of the business. Audit independence and objectivity will be lost, impeding traditional audit functions. Information security implements and executes the program. Although it should promote it at all levels, it cannot sponsor the effort due to insufficient operational knowledge and lack of proper authority.

**NEW QUESTION 354**

Which of the following controls would BEST prevent accidental system shutdown from the console or operations area?

- A. Redundant power supplies
- B. Protective switch covers
- C. Shutdown alarms
- D. Biometric readers

**Answer: B**

**Explanation:**

Protective switch covers would reduce the possibility of an individual accidentally pressing the power button on a device, thereby turning off the device. Redundant power supplies would not prevent an individual from powering down a device. Shutdown alarms would be after the fact. Biometric readers would be used to control access to the systems.

**NEW QUESTION 355**

Which of the following is MOST important to the success of an information security program?

- A. Security' awareness training
- B. Achievable goals and objectives
- C. Senior management sponsorship
- D. Adequate start-up budget and staffing

**Answer:** C

**Explanation:**

Sufficient senior management support is the most important factor for the success of an information security program. Security awareness training, although important, is secondary. Achievable goals and objectives as well as having adequate budgeting and staffing are important factors, but they will not ensure success if senior management support is not present.

#### NEW QUESTION 360

Which of the following tools is MOST appropriate to assess whether information security governance objectives are being met?

- A. SWOT analysis
- B. Waterfall chart
- C. Gap analysis
- D. Balanced scorecard

**Answer:** D

**Explanation:**

The balanced scorecard is most effective for evaluating the degree to which information security objectives are being met. A SWOT analysis addresses strengths, weaknesses, opportunities and threats. Although useful, a SWOT analysis is not as effective a tool. Similarly, a gap analysis, while useful for identifying the difference between the current state and the desired future state, is not the most appropriate tool. A waterfall chart is used to understand the flow of one process into another.

#### NEW QUESTION 365

Which of the following practices completely prevents a man-in-the-middle (MitM) attack between two hosts?

- A. Use security tokens for authentication
- B. Connect through an IPsec VPN
- C. Use https with a server-side certificate
- D. Enforce static media access control (MAC) addresses

**Answer:** B

**Explanation:**

IPsec effectively prevents man-in-the-middle (MitM) attacks by including source and destination IPs within the encrypted portion of the packet. The protocol is resilient to MitM attacks. Using token-based authentication does not prevent a MitM attack; however, it may help eliminate reusability of stolen cleartext credentials. An https session can be intercepted through Domain Name Server (DNS) or Address Resolution Protocol (ARP) poisoning. ARP poisoning—a specific kind of MitM attack—may be prevented by setting static media access control (MAC) addresses. Nevertheless, DNS and NetBIOS resolution can still be attacked to deviate traffic.

#### NEW QUESTION 368

The MAIN goal of an information security strategic plan is to:

- A. develop a risk assessment pla
- B. develop a data protection pla
- C. protect information assets and resource
- D. establish security governanc

**Answer:** C

**Explanation:**

The main goal of an information security strategic plan is to protect information assets and resources. Developing a risk assessment plan and H data protection plan, and establishing security governance refer to tools utilized in the security strategic plan that achieve the protection of information assets and resources.

#### NEW QUESTION 369

The MOST effective way to ensure that outsourced service providers comply with the organization's information security policy would be:

- A. service level monitorin
- B. penetration testin
- C. periodically auditin
- D. security awareness trainin

**Answer:** C

**Explanation:**

Regular audit exercise can spot any gap in the information security compliance. Service level monitoring can only pinpoint operational issues in the organization's operational environment. Penetration testing can identify security vulnerability but cannot ensure information compliance Training can increase users' awareness on the information security policy, but is not more effective than auditing.

#### NEW QUESTION 372

At what stage of the applications development process would encryption key management initially be addressed?

- A. Requirements development
- B. Deployment
- C. Systems testing
- D. Code reviews

**Answer:** A

**Explanation:**

Encryption key management has to be integrated into the requirements of the application's design. During systems testing and deployment would be too late since the requirements have already been agreed upon. Code reviews are part of the final quality assurance (QA) process and would also be too late in the process.

#### **NEW QUESTION 373**

Which of the following is the MOST important item to consider when evaluating products to monitor security across the enterprise?

- A. Ease of installation
- B. Product documentation
- C. Available support
- D. System overhead

**Answer:** D

**Explanation:**

Monitoring products can impose a significant impact ON system overhead for servers and networks. Product documentation, telephone support and ease of installation, while all important, would be secondary.

#### **NEW QUESTION 376**

Which of the following BEST ensures that modifications made to in-house developed business applications do not introduce new security exposures?

- A. Stress testing
- B. Patch management
- C. Change management
- D. Security baselines

**Answer:** C

**Explanation:**

Change management controls the process of introducing changes to systems to ensure that unintended changes are not introduced. Patch management involves the correction of software weaknesses and helps ensure that newly identified exploits are mitigated in a timely fashion. Security baselines provide minimum recommended settings. Stress testing ensures that there are no scalability problems.

#### **NEW QUESTION 379**

Which of the following devices should be placed within a demilitarized zone (DMZ )?

- A. Network switch
- B. Web server
- C. Database server
- D. File/print server

**Answer:** B

**Explanation:**

A web server should normally be placed within a demilitarized zone (DMZ) to shield the internal network. Database and file/print servers may contain confidential or valuable data and should always be placed on the internal network, never on a DMZ that is subject to compromise. Switches may bridge a DMZ to another network but do not technically reside within the DMZ network segment.

#### **NEW QUESTION 381**

An organization has adopted a practice of regular staff rotation to minimize the risk of fraud and encourage crosstraining. Which type of authorization policy would BEST address this practice?

- A. Multilevel
- B. Role-based
- C. Discretionary
- D. Attribute-based

**Answer:** B

**Explanation:**

A role-based policy will associate data access with the role performed by an individual, thus restricting access to data required to perform the individual's tasks. Multilevel policies are based on classifications and clearances. Discretionary policies leave access decisions up to information resource managers.

#### **NEW QUESTION 385**

Which of the following tools is MOST appropriate for determining how long a security project will take to implement?



- A. Gantt chart
- B. Waterfall chart
- C. Critical path
- D. Rapid Application Development (RAD)

**Answer:** C

**Explanation:**

The critical path method is most effective for determining how long a project will take. A waterfall chart is used to understand the flow of one process into another. A Gantt chart facilitates the proper estimation and allocation of resources. The Rapid Application Development (RAD) method is used as an aid to facilitate and expedite systems development.

#### **NEW QUESTION 389**

A risk assessment study carried out by an organization noted that there is no segmentation of the local area network (LAN). Network segmentation would reduce the potential impact of which of the following?

- A. Denial of service (DoS) attacks
- B. Traffic sniffing
- C. Virus infections
- D. IP address spoofing

**Answer:** B

**Explanation:**

Network segmentation reduces the impact of traffic sniffing by limiting the amount of traffic that may be visible on any one network segment. Network segmentation would not mitigate the risk posed by denial of service (DoS) attacks, virus infections or IP address spoofing since each of these would be able to traverse network segments.

#### **NEW QUESTION 393**

When speaking to an organization's human resources department about information security, an information security manager should focus on the need for:

- A. an adequate budget for the security progra
- B. recruitment of technical IT employee
- C. periodic risk assessment
- D. security awareness training for employee

**Answer:** D

**Explanation:**

An information security manager has to impress upon the human resources department the need for security awareness training for all employees. Budget considerations are more of an accounting function. The human resources department would become involved once they are convinced for the need of security awareness training. Recruiting IT-savvy staff may bring in new employees with better awareness of information security, but that is not a replacement for the training requirements of the other employees. Periodic risk assessments may or may not involve the human resources department function.

#### **NEW QUESTION 396**

Which of the following is MOST effective in preventing weaknesses from being introduced into existing production systems?

- A. Patch management
- B. Change management
- C. Security baselines
- D. Virus detection

**Answer:** B

**Explanation:**

Change management controls the process of introducing changes to systems. This is often the point at which a weakness will be introduced. Patch management involves the correction of software weaknesses and would necessarily follow change management procedures. Security baselines provide minimum recommended settings and do not prevent introduction of control weaknesses. Virus detection is an effective tool but primarily focuses on malicious code from external sources, and only for those applications that are online.

#### **NEW QUESTION 401**

Which of the following would BEST protect an organization's confidential data stored on a laptop computer from unauthorized access?

- A. Strong authentication by password
- B. Encrypted hard drives
- C. Multifactor authentication procedures
- D. Network-based data backup

**Answer:** B

**Explanation:**

Encryption of the hard disks will prevent unauthorized access to the laptop even when the laptop is lost or stolen. Strong authentication by password can be bypassed by a

determined hacker. Multifactor authentication can be bypassed by removal of the hard drive and insertion into another laptop. Network- based data backups do not prevent access but rather recovery from data loss.

**NEW QUESTION 404**

A message\* that has been encrypted by the sender's private key and again by the receiver's public key achieves:

- A. authentication and authorizatio
- B. confidentiality and integrit
- C. confidentiality and nonrepudiatio
- D. authentication and nonrepudiatio

**Answer: C**

**Explanation:**

Encryption by the private key of the sender will guarantee authentication and nonrepudiation. Encryption by the public key of the receiver will guarantee confidentiality.

**NEW QUESTION 409**

Which of the following, using public key cryptography, ensures authentication, confidentiality and nonrepudiation of a message?

- A. Encrypting first by receiver's private key and second by sender's public key
- B. Encrypting first by sender's private key and second by receiver's public key
- C. Encrypting first by sender's private key and second decrypting by sender's public key
- D. Encrypting first by sender's public key and second by receiver's private key

**Answer: B**

**Explanation:**

Encrypting by the sender's private key ensures authentication. By being able to decrypt with the sender's public key, the receiver would know that the message is sent by the sender only and the sender cannot deny/repudiate the message. By encrypting with the sender's public key secondly, only the sender will be able to decrypt the message and confidentiality is assured. The receiver's private key is private to the receiver and the sender cannot have it for encryption. Similarly, the receiver will not have the private key of the sender to decrypt the second-level encryption. In the case of encrypting first by the sender's private key and. second, decrypting by the sender's public key, confidentiality is not ensured since the message can be decrypted by anyone using the sender's public key. The receiver's private key would not be available to the sender for second-level encryption. Similarly, the sender's private key would not be available to the receiver for decrypting the message.

**NEW QUESTION 410**

Which of the following is a key area of the ISO 27001 framework?

- A. Operational risk assessment
- B. Financial crime metrics
- C. Capacity management
- D. Business continuity management

**Answer: D**

**Explanation:**

Operational risk assessment, financial crime metrics and capacity management can complement the information security framework, but only business continuity management is a key component.

**NEW QUESTION 415**

Which of the following is the MOST important item to include when developing web hosting agreements with third-party providers?

- A. Termination conditions
- B. Liability limits
- C. Service levels
- D. Privacy restrictions

**Answer: C**

**Explanation:**

Service levels are key to holding third parties accountable for adequate delivery of services. This is more important than termination conditions, privacy restrictions or liability limitations.

**NEW QUESTION 417**

Which of the following is the MOST effective type of access control?

- A. Centralized
- B. Role-based
- C. Decentralized
- D. Discretionary

**Answer: B**

**Explanation:**

Role-based access control allows users to be grouped into job-related categories, which significantly cases the required administrative overhead. Discretionary access control would require a greater degree of administrative overhead. Decentralized access control generally requires a greater number of staff to administer, while centralized access control is an incomplete answer.

**NEW QUESTION 419**

Nonrepudiation can BEST be ensured by using:

- A. strong password
- B. a digital has
- C. symmetric encryptio
- D. digital signature

**Answer:** D

**Explanation:**

Digital signatures use a private and public key pair, authenticating both parties. The integrity of the contents exchanged is controlled through the hashing mechanism that is signed by the private key of the exchanging party. A digital hash in itself helps in ensuring integrity of the contents, but not nonrepudiation. Symmetric encryption wouldn't help in nonrepudiation since the keys are always shared between parties. Strong passwords only ensure authentication to the system and cannot be used for nonrepudiation involving two or more parties.

**NEW QUESTION 423**

Priority should be given to which of the following to ensure effective implementation of information security governance?

- A. Consultation
- B. Negotiation
- C. Facilitation
- D. Planning

**Answer:** D

**Explanation:**

Planning is the key to effective implementation of information security governance. Consultation, negotiation and facilitation come after planning.

**NEW QUESTION 426**

Which of the following devices should be placed within a DMZ?

- A. Router
- B. Firewall
- C. Mail relay
- D. Authentication server

**Answer:** C

**Explanation:**

A mail relay should normally be placed within a demilitarized zone (DMZ) to shield the internal network. An authentication server, due to its sensitivity, should always be placed on the internal network, never on a DMZ that is subject to compromise. Both routers and firewalls may bridge a DMZ to another network, but do not technically reside within the DMZ, network segment.

**NEW QUESTION 430**

Which of the following controls is MOST effective in providing reasonable assurance of physical access compliance to an unmanned server room controlled with biometric devices?

- A. Regular review of access control lists
- B. Security guard escort of visitors
- C. Visitor registry log at the door
- D. A biometric coupled with a PIN

**Answer:** A

**Explanation:**

A review of access control lists is a detective control that will enable an information security manager to ensure that authorized persons are entering in compliance with corporate policy. Visitors accompanied by a guard will also provide assurance but may not be cost effective. A visitor registry is the next cost-effective control. A biometric coupled with a PIN will strengthen the access control; however, compliance assurance logs will still have to be reviewed.

**NEW QUESTION 434**

The MOST important success factor to design an effective IT security awareness program is to:

- A. customize the content to the target audienc
- B. ensure senior management is represente
- C. ensure that all the staff is traine

D. avoid technical content but give concrete example

**Answer:** A

**Explanation:**

Awareness training can only be effective if it is customized to the expectations and needs of attendees. Needs will be quite different depending on the target audience and will vary between business managers, end users and IT staff; program content and the level of detail communicated will therefore be different. Other criteria are also important; however, the customization of content is the most important factor.

#### **NEW QUESTION 439**

In an organization, information systems security is the responsibility of:

- A. all personne
- B. information systems personne
- C. information systems security personne
- D. functional personne

**Answer:** A

**Explanation:**

All personnel of the organization have the responsibility of ensuring information systems security-this can include indirect personnel such as physical security personnel. Information systems security cannot be the responsibility of information systems personnel alone since they cannot ensure security. Information systems security cannot be the responsibility of information systems security personnel alone since they cannot ensure security. Information systems security cannot be the responsibility of functional personnel alone since they cannot ensure security.

#### **NEW QUESTION 443**

The information classification scheme should:

- A. consider possible impact of a security breac
- B. classify personal information in electronic for
- C. be performed by the information security manage
- D. classify systems according to the data processe

**Answer:** A

**Explanation:**

Data classification is determined by the business risk, i.e., the potential impact on the business of the loss, corruption or disclosure of information. It must be applied to information in all forms, both electronic and physical (paper), and should be applied by the data owner, not the security manager. Choice B is an incomplete answer because it addresses only privacy issues, while choice A is a more complete response. Systems are not classified per se, but the data they process and store should definitely be classified.

#### **NEW QUESTION 447**

Which of the following is MOST effective for securing wireless networks as a point of entry into a corporate network?

- A. Boundary router
- B. Strong encryption
- C. Internet-facing firewall
- D. Intrusion detection system (IDS)

**Answer:** B

**Explanation:**

Strong encryption is the most effective means of protecting wireless networks. Boundary routers, intrusion detection systems (IDSs) and firewalling the Internet would not be as effective.

#### **NEW QUESTION 450**

To BEST improve the alignment of the information security objectives in an organization, the chief information security officer (CISO) should:

- A. revise the information security progra
- B. evaluate a balanced business scorecar
- C. conduct regular user awareness session
- D. perform penetration test

**Answer:** B

**Explanation:**

The balanced business scorecard can track the effectiveness of how an organization executes its information security strategy and determine areas of improvement. Revising the information security program may be a solution, but is not the best solution to improve alignment of the information security objectives. User awareness is just one of the areas the organization must track through the balanced business scorecard. Performing penetration tests does not affect alignment with information security objectives.

#### **NEW QUESTION 455**

Which of the following mechanisms is the MOST secure way to implement a secure wireless network?

- A. Filter media access control (MAC) addresses
- B. Use a Wi-Fi Protected Access (WPA2) protocol
- C. Use a Wired Equivalent Privacy (WEP) key
- D. Web-based authentication

**Answer: B**

**Explanation:**

WPA2 is currently one of the most secure authentication and encryption protocols for mainstream wireless products. MAC address filtering by itself is not a good security mechanism since allowed MAC addresses can be easily sniffed and then spoofed to get into the network. WEP is no longer a secure encryption mechanism for wireless communications. The WEP key can be easily broken within minutes using widely available software. And once the WEP key is obtained, all communications of every other wireless client are exposed. Finally, a web-based authentication mechanism can be used to prevent unauthorized user access to a network, but it will not solve the wireless network's main security issues, such as preventing network sniffing.

#### **NEW QUESTION 460**

Which of the following is the MOST important reason for an information security review of contracts? To help ensure that:

- A. the parties to the agreement can perform
- B. confidential data are not included in the agreement
- C. appropriate controls are included
- D. the right to audit is a requirement

**Answer: C**

**Explanation:**

Agreements with external parties can expose an organization to information security risks that must be assessed and appropriately mitigated. The ability of the parties to perform is normally the responsibility of legal and the business operation involved. Confidential information may be in the agreement by necessity and while the information security manager can advise and provide approaches to protect the information, the responsibility rests with the business and legal. Audit rights may be one of many possible controls to include in a third-party agreement, but is not necessarily a contract requirement, depending on the nature of the agreement.

#### **NEW QUESTION 463**

Which of the following devices could potentially stop a Structured Query Language (SQL) injection attack?

- A. An intrusion prevention system (IPS)
- B. An intrusion detection system (IDS)
- C. A host-based intrusion detection system (HIDS)
- D. A host-based firewall

**Answer: A**

**Explanation:**

SQL injection attacks occur at the application layer. Most IPS vendors will detect at least basic sets of SQL injection and will be able to stop them. IDS will detect, but not prevent. HIDS will be unaware of SQL injection problems. A host-based firewall, be it on the web server or the database server, will allow the connection because firewalls do not check packets at an application layer.

#### **NEW QUESTION 467**

Which of the following BEST ensures that information transmitted over the Internet will remain confidential?

- A. Virtual private network (VPN)
- B. Firewalls and routers
- C. Biometric authentication
- D. Two-factor authentication

**Answer: A**

**Explanation:**

Encryption of data in a virtual private network (VPN) ensures that transmitted information is not readable, even if intercepted. Firewalls and routers protect access to data resources inside the network and do not protect traffic in the public network. Biometric and two-factor authentication, by themselves, would not prevent a message from being intercepted and read.

#### **NEW QUESTION 469**

Which of the following devices should be placed within a DMZ?

- A. Proxy server
- B. Application server
- C. Departmental server
- D. Data warehouse server

**Answer: B**

**Explanation:**



An application server should normally be placed within a demilitarized zone (DMZ) to shield the internal network. Data warehouse and departmental servers may contain confidential or valuable data and should always be placed on the internal network, never on a DMZ that is subject to compromise. A proxy server forms the inner boundary of the DMZ but is not placed within it.

**NEW QUESTION 470**

Good information security standards should:

- A. define precise and unambiguous allowable limit
- B. describe the process for communicating violation
- C. address high-level objectives of the organization
- D. be updated frequently as new software is released

**Answer:** A

**Explanation:**

A security standard should clearly state what is allowable; it should not change frequently. The process for communicating violations would be addressed by a security procedure, not a standard. High-level objectives of an organization would normally be addressed in a security policy.

**NEW QUESTION 473**

A new port needs to be opened in a perimeter firewall. Which of the following should be the FIRST step before initiating any changes?

- A. Prepare an impact assessment report
- B. Conduct a penetration test
- C. Obtain approval from senior management
- D. Back up the firewall configuration and policy file

**Answer:** A

**Explanation:**

An impact assessment report needs to be prepared first by providing the justification for the change, analysis of the changes to be made, the impact if the change does not work as expected, priority of the change and urgency of the change request. Choices B, C and D could be important steps, but the impact assessment report should be performed before the other steps.

**NEW QUESTION 474**

What is the BEST way to ensure that contract programmers comply with organizational security policies?

- A. Explicitly refer to contractors in the security standards
- B. Have the contractors acknowledge in writing the security policies
- C. Create penalties for noncompliance in the contracting agreement
- D. Perform periodic security reviews of the contractors

**Answer:** D

**Explanation:**

Periodic reviews are the most effective way of obtaining compliance. None of the other options detects the failure of contract programmers to comply.

**NEW QUESTION 479**

The MOST important reason for formally documenting security procedures is to ensure:

- A. processes are repeatable and sustainable
- B. alignment with business objectives
- C. auditability by regulatory agencies
- D. objective criteria for the application of metrics

**Answer:** A

**Explanation:**

Without formal documentation, it would be difficult to ensure that security processes are performed in the proper manner every time that they are performed. Alignment with business objectives is not a function of formally documenting security procedures. Processes should not be formally documented merely to satisfy an audit requirement. Although potentially useful in the development of metrics, creating formal documentation to assist in the creation of metrics is a secondary objective.

**NEW QUESTION 482**

A third party was engaged to develop a business application. Which of the following would an information security manager BEST test for the existence of back doors?

- A. System monitoring for traffic on network ports
- B. Security code reviews for the entire application
- C. Reverse engineering the application binaries
- D. Running the application from a high-privileged account on a test system

**Answer:** B

**Explanation:**

Security' code reviews for the entire application is the best measure and will involve reviewing the entire source code to detect all instances of back doors. System monitoring for traffic on network ports would not be able to detect all instances of back doors and is time consuming and would take a lot of effort. Reverse engineering the application binaries may not provide any definite clues. Back doors will not surface by running the application on high-privileged accounts since back doors are usually hidden accounts in the applications.

**NEW QUESTION 486**

The advantage of sending messages using steganographic techniques, as opposed to utilizing encryption, is that:

- A. the existence of messages is unknow
- B. required key sizes are smalle
- C. traffic cannot be sniffe
- D. reliability of the data is higher in transi

**Answer:** A

**Explanation:**

The existence of messages is hidden when using steganography. This is the greatest risk. Keys are relevant for encryption and not for steganography. Sniffing of steganographic traffic is also possible. Option D is not relevant.

**NEW QUESTION 491**

Which of the following change management activities would be a clear indicator that normal operational procedures require examination? A high percentage of:

- A. similar change request
- B. change request postponement
- C. canceled change request
- D. emergency change request

**Answer:** D

**Explanation:**

A high percentage of emergency change requests could be caused by changes that are being introduced at the last minute to bypass normal change management procedures. Similar requests, postponements and canceled requests all are indicative of a properly functioning change management process.

**NEW QUESTION 494**

Which of the following is the BEST tool to maintain the currency and coverage of an information security program within an organization?

- A. The program's governance oversight mechanisms
- B. Information security periodicals and manuals
- C. The program's security architecture and design
- D. Training and certification of the information security team

**Answer:** A

**Explanation:**

While choices B, C and D will all assist the currency and coverage of the program, its governance oversight mechanisms are the best method.

**NEW QUESTION 497**

Which of the following is the MOST effective, positive method to promote security awareness?

- A. Competitions and rewards for compliance
- B. Lock-out after three incorrect password attempts
- C. Strict enforcement of password formats
- D. Disciplinary action for noncompliance

**Answer:** A

**Explanation:**

Competitions and rewards are a positive encouragement to user participation in the security program. Merely locking users out for forgetting their passwords does not enhance user awareness. Enforcement of password formats and disciplinary actions do not positively promote awareness.

**NEW QUESTION 501**

Of the following, the BEST method for ensuring that temporary employees do not receive excessive access rights is:

- A. mandatory access control
- B. discretionary access control
- C. lattice-based access control
- D. role-based access control

**Answer:** D

**Explanation:**

Role-based access controls will grant temporary employee access based on the job function to be performed. This provides a better means of ensuring that the access is not more or less than what is required. Discretionary, mandatory and lattice-based access controls are all security models, hut they do not address the issue of temporary employees as well as role-based access controls.

**NEW QUESTION 502**

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