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ISACA CCOA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Technology Essentials: This section of the exam measures skills of a Cybersecurity Specialist and covers the foundational technologies and principles that form the backbone of cybersecurity. It includes topics like hardware and software configurations, network protocols, cloud infrastructure, and essential tools. The focus is on understanding the technical landscape and how these elements interconnect to ensure secure operations.
Topic 2	<ul style="list-style-type: none">Securing Assets: This section of the exam measures skills of a Cybersecurity Specialist and covers the methods and strategies used to secure organizational assets. It includes topics like endpoint security, data protection, encryption techniques, and securing network infrastructure. The goal is to ensure that sensitive information and resources are properly protected from external and internal threats.

Topic 3	<ul style="list-style-type: none"> • Cybersecurity Principles and Risk: This section of the exam measures the skills of a Cybersecurity Specialist and covers core cybersecurity principles and risk management strategies. It includes assessing vulnerabilities, threat analysis, and understanding regulatory compliance frameworks. The section emphasizes evaluating risks and applying appropriate measures to mitigate potential threats to organizational assets.
Topic 4	<ul style="list-style-type: none"> • Incident Detection and Response: This section of the exam measures the skills of a Cybersecurity Analyst and focuses on detecting security incidents and responding appropriately. It includes understanding security monitoring tools, analyzing logs, and identifying indicators of compromise. The section emphasizes how to react to security breaches quickly and efficiently to minimize damage and restore operations.
Topic 5	<ul style="list-style-type: none"> • Adversarial Tactics, Techniques, and Procedures: This section of the exam measures the skills of a Cybersecurity Analyst and covers the tactics, techniques, and procedures used by adversaries to compromise systems. It includes identifying methods of attack, such as phishing, malware, and social engineering, and understanding how these techniques can be detected and thwarted.

ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q76-Q81):

NEW QUESTION # 76

Which of the following BEST enables an organization to identify potential security threats by monitoring and analyzing network traffic for unusual activity?

- A. Data loss prevention (DLP)
- B. Endpoint security
- C. Web application firewall (WAF)
- **D. Security operation center (SOC)**

Answer: D

Explanation:

A Security Operation Center (SOC) is tasked with monitoring and analyzing network traffic to detect anomalies and potential security threats.

* **Role:** SOC's collect and analyze data from firewalls, intrusion detection systems (IDS), and other network monitoring tools.

* **Function:** Analysts in the SOC identify unusual activity patterns that may indicate intrusions or malware.

* **Proactive Threat Detection:** Uses log analysis and behavioral analytics to catch threats early.

Incorrect Options:

* **A. Web application firewall (WAF):** Protects against web-based attacks but does not analyze network traffic in general.

* **B. Endpoint security:** Focuses on individual devices, not network-wide monitoring.

* **D. Data loss prevention (DLP):** Monitors data exfiltration rather than overall network activity.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 8, Section "Security Monitoring and Threat Detection," Subsection "Role of the SOC" - SOC's are integral to identifying potential security threats through network traffic analysis.

NEW QUESTION # 77

When identifying vulnerabilities, which of the following should a cybersecurity analyst determine FIRST?

- A. The number of tested asset types included in the assessment
- B. The number of vulnerabilities identifiable by the scanning tool
- C. The vulnerability categories identifiable by the scanning tool
- **D. The vulnerability categories possible for the tested asset types**

Answer: D

Explanation:

When identifying vulnerabilities, the first step for a cybersecurity analyst is to determine the vulnerability categories possible for the tested asset types because:

- * Asset-Specific Vulnerabilities: Different asset types (e.g., servers, workstations, IoT devices) are susceptible to different vulnerabilities.
- * Targeted Scanning: Knowing the asset type helps in choosing the correct vulnerability scanning tools and configurations.
- * Accuracy in Assessment: This ensures that the scan is tailored to the specific vulnerabilities associated with those assets.
- * Efficiency: Reduces false positives and negatives by focusing on relevant vulnerability categories.

Other options analysis:

- * A. Number of vulnerabilities identifiable: This is secondary; understanding relevant categories comes first.
- * B. Number of tested asset types: Knowing asset types is useful, but identifying their specific vulnerabilities is more crucial.
- * D. Vulnerability categories identifiable by the tool: Tool capabilities matter, but only after determining what needs to be tested.

CCOA Official Review Manual, 1st Edition References:

- * Chapter 6: Vulnerability Management: Discusses the importance of asset-specific vulnerability identification.
- * Chapter 8: Threat and Vulnerability Assessment: Highlights the relevance of asset categorization.

NEW QUESTION # 78

Which of the following is the PRIMARY benefit of using software-defined networking for network security?

- **A. It allows for centralized security management and control.**
- B. It improves security monitoring and alerting capabilities.
- C. It simplifies network topology and reduces complexity.
- D. It provides greater scalability and flexibility for network devices.

Answer: A

Explanation:

Software-Defined Networking (SDN) centralizes network control by decoupling the control plane from the data plane, enabling:

- * Centralized Management: Administrators can control the entire network from a single point.
- * Dynamic Policy Enforcement: Security policies can be applied uniformly across the network.
- * Real-Time Adjustments: Quickly adapt to emerging threats by reconfiguring policies from the central controller.
- * Enhanced Visibility: Consolidated monitoring through centralized control improves security posture.

Incorrect Options:

- * A. Simplifies network topology: This is a secondary benefit, not the primary security advantage.
- * B. Greater scalability and flexibility: While true, it is not directly related to security.
- * D. Improves monitoring and alerting: SDN primarily focuses on control, not monitoring.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 5, Section "Software-Defined Networks," Subsection "Security Benefits" - SDN's centralized control model significantly enhances network security management.

NEW QUESTION # 79

Which of the following BEST enables a cybersecurity analyst to influence the acceptance of effective security controls across an organization?

- **A. Communication skills**
- B. Contingency planning expertise
- C. Knowledge of cybersecurity standards
- D. Critical thinking

Answer: A

Explanation:

To effectively influence the acceptance of security controls, a cybersecurity analyst needs strong communication skills:

- * Persuasion: Clearly conveying the importance of security measures to stakeholders.
- * Stakeholder Engagement: Building consensus by explaining technical concepts in understandable terms.
- * Education and Awareness: Encouraging best practices through effective communication.
- * Bridging Gaps: Aligning security objectives with business goals through collaborative discussions.

Incorrect Options:

- * A. Contingency planning expertise: Important but less relevant to influencing acceptance.
- * B. Knowledge of cybersecurity standards: Essential but not enough to drive acceptance.
- * D. Critical thinking: Helps analyze risks but does not directly aid in influencing organizational buy-in.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 9, Section "Influencing Security Culture," Subsection "Communication Strategies" - Effective communication is crucial for gaining organizational support for security initiatives.

NEW QUESTION # 80

Which types of network devices are MOST vulnerable due to age and complexity?

- A. Wireless
- B. Mainframe technology
- C. Ethernet
- D. Operational technology

Answer: D

Explanation:

Operational Technology (OT) systems are particularly vulnerable due to their age, complexity, and long upgrade cycles.

* Legacy Systems: Often outdated, running on old hardware and software with limited update capabilities.

* Complexity: Integrates various control systems like SCADA, PLCs, and DCS, making consistent security challenging.

* Lack of Patching: Industrial environments often avoid updates due to fear of system disruptions.

* Protocols: Many OT devices use insecure communication protocols that lack modern encryption.

Incorrect Options:

* A. Ethernet: A network protocol, not a system prone to aging or complexity issues.

* B. Mainframe technology: While old, these systems are typically better maintained and secured.

* D. Wireless: While vulnerable, it's not primarily due to age or inherent complexity.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 7, Section "Securing Legacy Systems," Subsection "Challenges in OT Security" - OT environments often face security challenges due to outdated and complex infrastructure.

NEW QUESTION # 81

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