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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	AI Governance and Program Management: This section of the exam measures the abilities of AI Security Governance Professionals and focuses on advising stakeholders in implementing AI security through governance frameworks, policy creation, data lifecycle management, program development, and incident response protocols.
Topic 2	AI Technologies and Controls: This section of the exam measures the expertise of AI Security Architects and assesses knowledge in designing secure AI architecture and controls. It addresses privacy, ethical, and trust concerns, data management controls, monitoring mechanisms, and security control implementation tailored to AI systems.
Topic 3	AI Risk Management: This section of the exam measures the skills of AI Risk Managers and covers assessing enterprise threats, vulnerabilities, and supply chain risk associated with AI adoption, including risk treatment plans and vendor oversight.

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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q59-Q64):

NEW QUESTION # 59

Which of the following is the MOST important course of action when implementing continuous monitoring and reporting for AI-based systems?

- A. Establish an automated alert system for threshold breaches in risk metrics
- B. Implement a risk dashboard for visualizing and tracking AI-related risk over time
- C. Develop standardized risk reporting templates for different stakeholder groups
- **D. Implement real-time monitoring of key risk indicators (KRIs) for AI systems**

Answer: D

Explanation:

The AAISM governance framework specifies that the foundation of continuous monitoring is real-time tracking of key risk indicators. This ensures immediate detection of deviations, model drift, and operational anomalies. Automated alerts, dashboards, and reporting templates all support monitoring, but they rely on the presence of accurate, real-time KRI measurement as their source. Without live monitoring, the other controls are reactive rather than proactive. The most important course of action in establishing effective continuous monitoring is therefore real-time KRI tracking.

References:

AAISM Study Guide - AI Governance and Program Management (Continuous Monitoring and Assurance) ISACA AI Risk Guidance - Monitoring Key Risk Indicators

NEW QUESTION # 60

Which of the following BEST represents a combination of quantitative and qualitative metrics that can be used to comprehensively evaluate AI transparency?

- A. AI explainability reports and bias metrics
- **B. AI ethical impact and user feedback metrics**
- C. AI model complexity and accuracy metrics
- D. AI system availability and downtime metrics

Answer: B

Explanation:

The AAISM governance framework emphasizes that AI transparency cannot be evaluated using only technical statistics; it requires a combination of quantitative and qualitative metrics. The best pairing is ethical impact assessments (qualitative) with user feedback metrics (quantitative and perception-based). Availability and accuracy metrics measure performance, not transparency. Explainability reports and bias metrics are useful but still technical and limited. Comprehensive evaluation of transparency requires consideration of ethical dimensions and stakeholder perspectives, which is achieved through ethical impact analysis and user feedback.

References:

AAISM Study Guide - AI Governance and Program Management (Transparency and Accountability) ISACA AI Security Management - Measuring Ethical AI Practices

NEW QUESTION # 61

Which of the following is the MOST effective use of AI in incident response?

- A. Improving incident response playbook
- **B. Automating incident response triage**
- C. Streamlining incident response testing
- D. Ensuring chain of custody

Answer: B

Explanation:

AAISM's risk management guidance notes that the most effective application of AI in incident response is in automating triage activities. AI systems can rapidly analyze logs, alerts, and telemetry to prioritize incidents, reducing response times and allowing human analysts to focus on critical issues. Streamlining testing and improving playbooks are valuable but secondary benefits. Ensuring chain of custody is critical for legal admissibility of evidence but is primarily a human and process-driven control, not AI's strength. The greatest efficiency and effectiveness comes from AI-driven triage automation.

References:

AAISM Exam Content Outline - AI Risk Management (AI for Incident Detection and Response) AI Security Management Study Guide - Automation in Security Operations

NEW QUESTION # 62

Which of the following is the GREATEST risk inherent to implementing generative AI?

- A. Potential intellectual property violations
- B. Inadequate return on investment (ROI)
- C. Unidentified asset vulnerabilities
- D. Lack of employee training

Answer: A

Explanation:

The AAISM framework identifies intellectual property (IP) violations as the most significant inherent risk in deploying generative AI. These systems often rely on large-scale internet data for training, which may inadvertently contain copyrighted or proprietary material. This creates legal and reputational exposure when outputs reproduce or reference protected content. While employee training gaps, asset vulnerabilities, and ROI concerns are relevant risks, they are not inherent to generative models themselves. The greatest inherent risk tied directly to generative AI adoption is the possibility of violating intellectual property rights.

References:

AAISM Study Guide - AI Risk Management (Generative AI Risks and Legal Exposure) ISACA AI Security Management - Copyright and IP Concerns in Generative AI

NEW QUESTION # 63

A large pharmaceutical company using a new AI solution to develop treatment regimens is concerned about potential hallucinations with the introduction of real-world data. Which of the following is MOST likely to reduce this risk?

- A. Penetration testing
- B. Data asset validation
- C. AI impact analysis
- D. Human-in-the-loop

Answer: D

Explanation:

AAISM materials identify human-in-the-loop governance as the most effective safeguard against risks such as hallucinations in AI systems used in high-stakes domains like healthcare. By ensuring that human experts validate outputs before they influence patient treatment decisions, organizations preserve accountability, safety, and accuracy. Penetration testing is a cybersecurity measure, not relevant to hallucination risk. AI impact analysis helps evaluate systemic effects but does not directly prevent faulty outputs. Data validation improves input quality but cannot fully prevent generative hallucinations. The key safeguard is human-in-the-loop oversight.

References:

AAISM Study Guide - AI Governance and Program Management (Human Oversight in High-Risk AI) ISACA AI Security Management - Mitigating Hallucinations in Generative AI

NEW QUESTION # 64

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