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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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.
Topic 2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> • 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.
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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q42-Q47):

NEW QUESTION # 42

Which of the following would MOST effectively obtain ongoing support from stakeholders to align AI initiatives with business objectives?

- A. Developing and monitoring the AI strategic roadmap
- B. Conducting periodic organization-wide AI staff training
- **C. Quantifying and communicating the value of AI solutions**
- D. Addressing and optimizing AI-related risk

Answer: C

Explanation:

Sustained stakeholder sponsorship hinges on demonstrated, quantified business value communicated in terms they own (KPIs, ROI, cost-to-serve, risk-adjusted outcomes). AAISM frames stakeholder alignment as a value-assurance loop: define value hypotheses, measure realized value, and continuously communicate results to sponsors. While an AI roadmap (C), risk optimization (B), and training (A) are important, they support rather than drive ongoing executive buy-in. Quantified value narratives secure resources and reinforce alignment to strategic goals.

References: * AI Security Management™ (AAISM) Body of Knowledge: Strategy & Value Realization- value metrics, benefits tracking, stakeholder reporting* AAISM Study Guide: Business alignment for AI- OKRs/KPIs, ROI cases, benefits realization management

NEW QUESTION # 43

When preparing for an AI incident, which of the following should be done FIRST?

- A. Implement a communication channel to report AI incidents
- B. Establish recovery processes for AI system models and data sets
- C. Create containment and eradication procedures for AI-related incidents
- **D. Establish a cross-functional incident response team with AI knowledge**

Answer: D

Explanation:

AAISM incident response guidance states the first foundational step is forming a cross-functional AI-aware incident response team, including model developers, data stewards, security leads, and compliance officers.

Without the team established, recovery (C), containment (D), or communication channels (A) cannot be effectively designed or executed.

References: AAISM Study Guide - AI Incident Response; Establishing Cross-Functional Teams.

NEW QUESTION # 44

Which of the following BEST describes an adversarial attack on an AI model?

- A. Reverse-engineering the model using social engineering
- B. Attacking underlying hardware
- **C. Providing inputs that mislead the model into incorrect predictions**
- D. Conducting denial-of-service attacks on AI APIs

Answer: C

Explanation:

AAISM defines adversarial attacks as manipulations of input data (text, image, audio, numeric values) designed to cause the model to produce incorrect or harmful predictions.

Hardware attacks (A) are infrastructure threats. Social engineering (C) targets people, not models. DoS attacks (D) affect availability, not model decision pathways.

References: AAISM Study Guide - Adversarial Threats; Input Manipulation.

NEW QUESTION # 45

Which of the following is the BEST way to ensure role clarity and staff effectiveness when implementing AI- assisted security monitoring tools?

- A. Update the security program to include cross-functional AI-specific responsibilities.
- B. Transition responsibilities for AI tools to external consultants for improved scalability.
- C. Increase training budgets for business staff to obtain vendor-neutral AI certifications.
- D. Defer implementation until the security team can be expanded with data scientists.

Answer: A

Explanation:

AAISM directs that AI adoption in security operations be governed through explicit operating models and RACI-mapped responsibilities spanning security operations, data science/ML, platform engineering, privacy, and compliance. Role clarity comes from updating the security program to codify AI-specific responsibilities (model monitoring, incident handling for AI failures, data governance, change control for models, bias/fairness reviews, supplier assurance) rather than deferring implementation, outsourcing core accountability, or relying on generic certifications. This ensures measurable accountability, reduces hand-off risk, and aligns day-to-day SOC practices with AI control objectives.

References:* AI Security Management (AAISM) Body of Knowledge: AI Governance Operating Model; Roles & Responsibilities; RACI for AI-enabled Security Operations* AAISM Study Guide: Program Governance, Control Objective Mapping to SOC Workflows; Cross-Functional Ownership for AI Controls

NEW QUESTION # 46

Which of the following is the GREATEST benefit of implementing an AI tool to safeguard sensitive data and prevent unauthorized access?

- A. Reduced number of false positives
- B. Timely initiation of incident response
- C. Reduced need for data classification
- D. Timely analysis of endpoint activities

Answer: A

Explanation:

The AAISM study materials highlight that AI-powered security tools provide the greatest benefit by reducing false positives in monitoring and access control systems. This improves efficiency, prevents alert fatigue, and enables security teams to focus on true threats. While timely analysis and incident response are benefits, they are not unique to AI-based tools and can be achieved with traditional methods. AI also does not remove the need for data classification, as classification underpins governance and compliance. The standout advantage is the improved accuracy and reduced false positives provided by AI.

References:

AAISM Study Guide - AI Technologies and Controls (Security Tools and Access Management) ISACA AI Security Management - Benefits of AI-Enabled Security

NEW QUESTION # 47

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