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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 (Q55-Q60):

NEW QUESTION # 55

Which of the following controls BEST mitigates the risk of bias in AI models?

- A. Regular data reconciliation
- **B. Diverse data sourcing strategies**
- C. Cryptographic hash functions
- D. Robust access control techniques

Answer: B

Explanation:

Bias in AI models primarily stems from limitations or imbalances in training data. The AAISM study materials emphasize that the most effective way to mitigate this risk is through diverse data sourcing strategies that ensure coverage across demographics, scenarios, and contexts. Access controls protect data security, not fairness. Data reconciliation ensures accuracy but does not address representational imbalance.

Cryptographic hashing preserves integrity but has no impact on bias mitigation. To reduce systemic unfairness, the critical control is sourcing diverse and representative data.

References:

AAISM Exam Content Outline - AI Technologies and Controls (Bias and Fairness Management) AI Security Management Study Guide - Data Governance and Bias Reduction Strategies

NEW QUESTION # 56

Security and assurance requirements for AI systems should FIRST be embedded in the:

- **A. Model design phase**
- B. Model training phase
- C. Model testing phase
- D. Model deployment phase

Answer: A

Explanation:

AAISM directs organizations to embed security, safety, and compliance controls at design time ("secure-by- design" and "shift-left"), ensuring requirements for robustness, privacy, and governance are defined as non- functional constraints on architecture, data sourcing, model choices, and evaluation criteria before any model is trained. Deferring these requirements to training, testing, or deployment increases residual risk and rework, and weakens traceability of control coverage.

References:* AI Security Management™ (AAISM) Body of Knowledge: Governance-Secure-by-Design; Policy-to-Control Traceability; Requirements Management* AAISM Study Guide: AI Program Lifecycle- Planning & Design Controls; Design-time Threat Modeling and Control Selection* AAISM Mapping to Standards: Design-phase Risk Identification and Requirements Engineering for AI

NEW QUESTION # 57

A newly hired programmer suspects that the organization's AI solution is inferring users' sensitive information and using it to advise future decisions. Which of the following is the programmer's BEST course of action?

- **A. Inform the governance panel**
- B. Suggest fine-tuning the AI solution
- C. Alert the CIO to the risk
- D. Conduct a code review

Answer: A

Explanation:

AAISM directs personnel to use established AI governance channels for suspected privacy, ethics, or compliance risks. The governance panel (risk, privacy, legal/compliance, security, product/data science) is chartered to triage, record, investigate, and direct remediation for potential inference of sensitive attributes and resulting decision impacts. Direct technical action (A or C) bypasses due process and accountability; escalating directly to a single executive (B) lacks the structured, cross-functional oversight required for regulated and ethical AI risk handling.

References: AI Security Management (AAISM) Body of Knowledge: AI Governance Operating Model; Roles & Responsibilities; Risk Intake and Triage for Privacy/Inference Risks. AAISM Study Guide: Ethics & Responsible AI Escalation Pathways; Governance Board Procedures; Documentation and Decision Records.

NEW QUESTION # 58

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

- A. Transition responsibilities to external consultants
- B. Delay implementation until more data scientists are hired
- C. Increase budgets for AI certifications
- **D. Update the security program to include cross-functional AI-specific responsibilities**

Answer: D

Explanation:

AAISM stresses that AI-enabled security programs require updated governance structures, including defined cross-functional roles across security, data, development, and operations teams.

Role clarity emerges from updated policies, responsibilities, and oversight-not from delaying adoption (A), outsourcing (D), or simply training (B).

References: AAISM Study Guide - AI Governance Structure; Role Definition and Accountability.

NEW QUESTION # 59

Which of the following is the PRIMARY purpose of a dedicated AI system policy?

- **A. Providing a framework to set AI objectives**
- B. Ensuring environmental impact is minimized
- C. Complying with external regulations
- D. Optimizing AI accuracy

Answer: A

Explanation:

Per AAISM, an AI policy is a governance instrument that defines objectives, principles, roles, responsibilities, accountability, and control requirements for AI systems across their lifecycle. It establishes the framework within which performance, compliance, ethics, risk appetite, security, privacy, and sustainability objectives are set and operationalized. Environmental considerations (A), accuracy optimization (B), and regulatory compliance (D) are important outcomes addressed under the policy, but the primary purpose is to provide the overarching framework for objectives and controls.

References: AI Security Management (AAISM) Body of Knowledge - AI Governance Frameworks; Policies, Standards, and Procedures; Roles and Accountability in AI Programs.

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