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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 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 3	<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.

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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q98-Q103):

NEW QUESTION # 98

Which of the following is the MOST effective strategy for penetration testers assessing the security of an AI model against membership inference attacks?

- **A. Analyzing AI model confidence scores to indicate training data**
- B. Disabling AI model logging to reduce noise during testing
- C. Generating synthetic data to replace the training data
- D. Measuring AI model accuracy on the test set

Answer: A

Explanation:

AAISM identifies confidence-score analysis as a principal technique for evaluating exposure to membership inference: models often yield measurably higher confidence for points seen during training. Testers compare output probabilities/entropies for known in-training vs. out-of-training samples to assess leakage. Disabling logs (A) reduces evidence; test-set accuracy (B) does not measure privacy leakage; synthetic data generation (D) is a mitigation strategy, not a penetration-testing method.

References: AI Security Management™ (AAISM) Body of Knowledge - Model Privacy Threats:

Membership Inference; Red/Blue Team Evaluation Techniques; Confidence/Entropy-based Privacy Testing.

NEW QUESTION # 99

Which of the following strategies BEST ensures generative AI tools do not expose company data?

- A. Conducting an independent AI data audit
- B. Ensuring AI tools are compliant with local regulations
- **C. Implementing a solution to prohibit the input of sensitive data**
- D. Testing AI tools before implementation

Answer: C

Explanation:

AAISM prioritizes preventive controls at the point of use for generative AI, specifically input-governance and DLP controls that block or redact confidential, regulated, or high-risk data before it can be sent to external models. Audits, pre-deployment tests, and regulatory conformance are necessary but do not themselves prevent an employee from pasting sensitive content into prompts. Enforcing input restrictions, pattern-based redaction, policy-aware controls, and allow-lists for approved contexts provides the highest assurance of preventing exposure.

References: AI Security Management™ (AAISM) Body of Knowledge: Data loss prevention for AI; prompt

/input controls; approved channels and guardrails for generative AI. AI Security Management™ Study Guide: Preventive over detective controls for confidentiality; enterprise guardrails at prompt capture and egress points.

NEW QUESTION # 100

A large financial services organization is integrating a third-party AI solution into its critical fraud detection system. Which of the following is the BEST way for the organization to reduce risk associated with AI vendor and supply chain dependencies?

- **A. Establishing contractual agreements requiring vendors to provide evidence of secure development practices**
- B. Focusing on performance testing to ensure the solution meets operational requirements
- C. Conducting annual vulnerability assessments of the fraud detection system after integration
- D. Implementing isolated virtual environments to validate the integration of the fraud detection system with the solution

Answer: A

Explanation:

AAISM emphasizes supplier assurance through contractual obligations as the foundational control for AI supply chain risk.

Contracts should require verifiable evidence of secure development practices (e.g., secure SDLC, model and data provenance documentation, SBOM/MBOM where applicable, vulnerability disclosure, patch SLAs, audit rights, incident notification, and regulatory compliance assertions). This creates enforceable, continuous assurance beyond point-in-time tests.

* A is necessary but reactive and limited to your environment.

* B addresses performance, not supply chain security.

* D is a good isolation/validation practice but does not create vendor accountability across the lifecycle.

References:* AI Security Management (AAISM) Body of Knowledge: Third-Party and Supply Chain Governance-Contractual security requirements, evidence-based assurance, right-to-audit.* AI Security Management Study Guide: Vendor due diligence artifacts, secure development evidence, lifecycle obligations for AI providers.

NEW QUESTION # 101

A global organization has experienced multiple incidents of staff copying confidential data into public chatbots and acting on the model outputs. Which of the following is MOST important to reduce short-term risk when launching an AI security awareness initiative?

- A. Blocking access to public large language models (LLMs) at the network perimeter
- **B. Delivering role-based and scenario-driven AI security training mapped to policy and job functions**
- C. Requiring employees to complete an annual generic phishing and deepfake awareness module
- D. Publishing an AI acceptable use policy and collecting e-signatures of employees

Answer: B

Explanation:

AAISM prescribes targeted, role-based, scenario-driven training aligned to policy and job tasks as the highest-impact near-term intervention for human-factor AI risks. By mapping concrete "do/don't" behaviors (e.g., what data may/may not be pasted into public chatbots, required redaction steps, approved tools, verification of outputs) to specific roles, organizations rapidly reduce incident likelihood and harmful actions.

* A (blocking) is a technical containment option but is not an awareness-initiative control and may cause workarounds; AAISM treats it as complementary, not a substitute for behavior change.

* B generic modules fail to address the specific misuse pattern.

* D signatures provide attestations without ensuring comprehension or changed behavior.

References:* AI Security Management (AAISM) Body of Knowledge: Human-centric Controls-Role-based training, policy-to-practice mapping, and scenario exercises for rapid risk reduction.* AI Security Management Study Guide: Awareness program design for generative AI misuse; behavior-anchored training outcomes.

NEW QUESTION # 102

An organization is looking to purchase an AI application from a vendor but is concerned about the security of its data. Which of the following is the MOST effective way to address this concern?

- A. Initiate discussions between the organization's and the vendor's legal teams
- B. Mandate an AI security audit by an external auditor before procurement
- **C. Ensure vendors disclose how the application uses the organization's data**
- D. Assess the vendor's publicly available AI usage policy

Answer: C

Explanation:

The priority control in AI vendor due diligence is ensuring explicit disclosure of data handling: data flows, purpose limitation, retention/deletion, training vs. inference use, isolation controls, access paths, subcontractors, and storage/transfer boundaries. This disclosure is then tied to contractual commitments and measurable controls. A public policy (Option A) may be incomplete; a pre-procurement external audit (Option B) can be valuable but is not always feasible or targeted to your data use; legal discussions (Option D) are necessary for terms but must be grounded in clear, detailed data-use disclosures to be effective.

References:

AAISM Body of Knowledge: Third-Party AI Risk Management; Data Governance and Usage Controls; Contractual and Technical Safeguards for Vendor AI.

AAISM Study Guide: AI Procurement Due Diligence; Data-Use Transparency (Training vs. Fine-tuning vs. Inference); Retention, Purpose Limitation, and Cross-Border Controls.

NEW QUESTION # 103

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