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ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Auditing Tools and Techniques: This section of the exam measures the skills of AI auditors and centers on auditing AI systems using appropriate tools and methods. It includes audit planning and design, sampling methodologies specific to AI, collecting audit evidence, using data analytics for quality assurance, and producing AI audit outputs and reports, including follow-up and quality control measures.
Topic 2	<ul style="list-style-type: none">• AI Operations: It covers managing AI-specific data needs—including collection, quality, security, and classification—applying development lifecycle methodologies with privacy and security by design, change and incident management, testing AI solutions, identifying AI-related threats and vulnerabilities, and supervising AI deployments.
Topic 3	<ul style="list-style-type: none">• AI GOVERNANCE AND RISK: It encompasses understanding different AI models and their life cycles, guiding AI strategy, defining roles and policies, managing AI-related risks, overseeing data privacy and governance, and ensuring adherence to ethical practices, standards, and regulations.

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ISACA Advanced in AI Audit Sample Questions (Q142-Q147):

NEW QUESTION # 142

Which of the following is the GREATEST risk associated with using AI in audit planning?

- **A. Incomplete data**
- B. Increased planning costs
- C. Scope creep
- D. Limited knowledge

Answer: A

Explanation:

In the context of AI-driven audit planning, the AAIA™ Study Guide identifies incomplete or inaccurate data as the most significant risk. If the data input into AI tools is missing, outdated, or inconsistent, the model's suggestions for risk prioritization or control testing will be flawed.

"Audit planning supported by AI tools is only as strong as the underlying data. Incomplete data may cause incorrect risk assessments or misallocate audit resources, undermining audit effectiveness." While scope creep and cost are common concerns in project management, and limited AI knowledge can be mitigated through training, only incomplete data directly impacts the validity of audit planning outputs.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI in Audit Processes," Subsection: "Data Integrity and Planning Risks"

NEW QUESTION # 143

A healthcare AI tool recommends treatments with high success rates but significant risk. The hospital prioritizes patient safety over innovation. What is the BEST course of action?

- **A. Adjust the AI's parameters to align with the hospital's risk tolerance.**
- B. Discontinue using the AI tool and rely solely on doctor expertise.
- C. Use the AI tool only for low-risk situations.
- D. Obtain patients' consent for the use of their data by the AI tool.

Answer: A

Explanation:

AI systems must align with the organization's risk appetite and ethical principles, especially in healthcare where patient safety is paramount. The BEST action is to adjust the AI's parameters (A) so the recommendations reflect the hospital's conservative risk tolerance, reducing the frequency of high-risk suggestions. AAIA stresses AI governance alignment with organizational risk appetite, treatment guidelines, and ethical priorities.

Option B is overly disruptive and eliminates beneficial AI capabilities. Option C is necessary for privacy but does not address treatment safety. Option D limits utility but doesn't correct underlying alignment issues. The core issue is model alignment with ethical and safety standards, making option A the correct choice.

References:

ISACA, AAIA Exam Content Outline- Domain 5: Ethical Principles in AI (alignment with risk tolerance, safety, beneficence).

NEW QUESTION # 144

Which of the following should be an IS auditor's GREATEST concern when using a predictive AI tool to analyze data abnormalities?

- A. The cost of implementing and maintaining the AI tool for data audit purposes
- **B. The false positives or false negatives generated by the AI tool**

- C. The speed at which the AI tool processes large data sets
- D. The ease of integrating the AI tool with existing data audit software

Answer: B

Explanation:

For a predictive AI tool analyzing abnormalities, the GREATEST concern is the rate and impact of false positives and false negatives (A). False positives can lead to unnecessary investigation, while false negatives mean true issues (e.g., fraud, control failures) remain undetected. From an assurance perspective, false negatives are especially critical because they directly undermine audit objectives. AAIA underscores that key performance metrics (e.g., precision, recall) and error trade-offs are essential in evaluating AI tools used in audit.

Integration ease (B), speed (C), and cost (D) are important practical considerations but are secondary to whether the tool accurately identifies or misses significant anomalies. Therefore, error behavior—false positives and false negatives—represents the primary risk to audit quality.

References:

ISACA, AAIA Exam Content Outline- Domain 3: AI in Audit Processes; Domain 2: AI Operations (model performance metrics and risk).

ISACA analytics guidance on evaluating AI tools using precision, recall, and error analysis in audit contexts.

NEW QUESTION # 145

Which of the following metrics are the BEST indication of a mature and effective approach to an organization's data governance program for its AI systems?

- A. Number of AI projects completed within the last fiscal year
- B. Total budget allocated to AI initiatives across all departments
- C. Frequency of data quality audits on the organization's data sets
- **D. Percentage of AI models with documented data lineage**

Answer: D

NEW QUESTION # 146

During an audit of an investment organization's AI-powered software, an IS auditor identifies a potential security risk. What is the GREATEST risk associated with staff exfiltrating organizational data to a generative AI tool?

- A. Excessive reliance on AI-generated insights
- B. Potential business disruptions
- **C. Unauthorized data disclosure**
- D. Data contamination due to biased AI model outputs

Answer: C

Explanation:

The AAIA™ Study Guide stresses that inputting confidential or proprietary data into third-party generative AI tools may result in unauthorized data disclosure. These tools may store, process, or retrain on the input data, leading to privacy and intellectual property risks.

"When employees input sensitive data into external AI tools, organizations risk losing control over that information. This may result in regulatory non-compliance, legal exposure, and irreversible data leakage." While business disruption (C) and reliance (D) are notable, the most severe and immediate risk is B- unauthorized disclosure. Data contamination (A) impacts model reliability, not data security.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "Ethical and Legal Considerations in AI," Subsection: "Data Privacy and Use of External AI Tools"

NEW QUESTION # 147

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