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## ISACA AAIA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>

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### ISACA Advanced in AI Audit Sample Questions (Q74-Q79):

#### NEW QUESTION # 74

An organization deploys an AI recruitment platform to screen job applicants. The IS auditor identifies that the platform's decisions may be influenced by model bias. Which of the following risk mitigation strategies is BEST for the auditor to recommend?

- A. Suspend the use of the AI system until the training data can be verified for fairness and compliance.
- B. Retrain the AI model using an external data set certified for inclusivity and fairness.
- **C. Implement a process to periodically test the AI system for biases and adjust parameters as needed.**
- D. Require manual reviews of all AI-generated recruitment decisions before hiring is finalized.

**Answer: C**

#### NEW QUESTION # 75

An IS auditor is considering using a web-based AI tool to update an audit report. What should be the MOST important consideration before inputting the report?

- A. The AI tool alignment with organizational report formatting
- **B. Compliance with organizational data protection requirements**
- C. Safeguard measures of the AI tool
- D. Impact on the audit budget

**Answer: B**

Explanation:

The MOST important factor is compliance with organizational data protection requirements (D), because audit reports contain sensitive internal information, findings, and potential control deficiencies. Sending such content to an external AI tool may result in data exposure or unauthorized processing. AAIA emphasizes privacy, confidentiality, and data protection obligations when interacting with external AI systems.

Option B (safeguards) is important but still secondary to ensuring compliance with internal data protection rules. Formatting alignment (A) and budget considerations (C) do not address the primary risk: improper disclosure of confidential audit data. Therefore, data protection compliance is the priority.

References:

ISACA, AAIA Exam Content Outline- Domain 5: Legal, Privacy, and Ethical Considerations in AI.

#### NEW QUESTION # 76

When auditing the transparency of an AI system, which of the following would be the MOST effective way to understand the model's decision-making process?

- A. Analyzing the complexity of the algorithms used
- B. Evaluating the diversity of the training data set
- **C. Reviewing the explainability of AI outputs**
- D. Assessing the computational cost of the model

**Answer: C**

Explanation:

Transparency in AI systems is a key requirement to ensure trust, accountability, and ethical compliance.

According to the ISACA AAIA™ Study Guide under the "AI Governance and Risk Management" section, understanding the decision-making process of an AI system falls under the principle of explainability.

Explainability refers to the degree to which an observer can understand the internal mechanics of an AI system and the rationale behind its outputs.

"Reviewing the explainability of AI outputs allows auditors and stakeholders to determine whether model decisions are interpretable and justifiable. High transparency means stakeholders can trace how and why a decision was made." While algorithm complexity and computational cost are technical considerations, they do not directly facilitate the audit of decision-making transparency. Similarly, training data diversity is essential for bias reduction but does not explain how decisions are derived. Therefore, option D is the most aligned with auditing transparency.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Governance and Risk Management," Subsection: "Transparency and Explainability"

#### NEW QUESTION # 77

An IS auditor reviewing documentation for an AI model notes that the modeler utilized a K-means clustering algorithm, which clusters data into categories for correlations and analysis. Which of the following is the MOST important risk for the auditor to consider?

- A. K-means clustering requires the modeler to supervise the learning analysis, which can introduce bias.
- B. K-means clustering determines the number of clusters for the modeler without supervision.
- C. K-means clustering algorithms are significantly sensitive to outliers and dependent on the similarity of units of measure.
- D. K-means clustering is not a common data clustering method due to its complexity and difficulty categorizing data correctly.

**Answer: C**

Explanation:

K-means clustering is a widely used unsupervised learning algorithm. However, it is sensitive to outliers and assumes that features are on the same scale, which can distort clustering results if not properly normalized.

According to the AAIA™ Study Guide, this sensitivity can impact model reliability and the meaningfulness of clusters.

"Auditors should assess whether proper data preprocessing (e.g., normalization, outlier removal) was applied in clustering models. K-means assumes Euclidean distances, making it prone to errors when features differ in scale or contain outliers." Therefore, C correctly identifies the key risk.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Fundamentals and Technologies," Subsection: "Clustering Algorithms and Data Risks"

#### NEW QUESTION # 78

An organization shares an AI model with external partners. One partner reports that sensitive data has been inadvertently exposed through the model's outputs. Which of the following is the IS auditor's BEST recommendation?

- A. Audit the data pipelines of all partners to identify the source of the leak.
- B. Retrain the model immediately and implement privacy-preserving techniques.
- C. Disable the shared model and notify partners of the potential breach.
- D. Limit the model's outputs to anonymized results while investigating further.

**Answer: C**

#### NEW QUESTION # 79

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