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### ISACA AAISM Exam Syllabus Topics:

Topic	Details

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

## ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q92-Q97):

### NEW QUESTION # 92

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

**Answer: D**

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 # 93

When implementing a generative AI system, which of the following approaches will BEST prevent misalignment between the corporate risk appetite and tolerance?

- A. Performing an AI impact assessment
- B. Ensuring effective AI key performance indicators (KPIs)
- C. Establishing and monitoring acceptable levels of AI system risk
- D. Creating and maintaining an AI risk register

**Answer: C**

Explanation:

AAISM governance guidance specifies that alignment between AI system adoption and organizational risk appetite is achieved by defining and monitoring acceptable levels of system risk. This ensures that generative AI operations remain within boundaries approved by leadership and compliance frameworks. While KPIs track performance, they do not ensure alignment with risk tolerance. AI impact assessments help identify risks but do not maintain continuous oversight. A risk register records risks but does not dynamically enforce acceptable thresholds. The most effective governance approach is to establish and monitor acceptable AI system risk levels.

References:

AAISM Study Guide - AI Governance and Program Management (Risk Appetite and Tolerance Alignment) ISACA AI Security Management - Generative AI Risk Governance

#### NEW QUESTION # 94

What is the PRIMARY purpose of a dedicated AI management system policy?

- A. Providing a framework to set AI objectives
- B. Minimizing environmental impact
- C. Optimizing AI model accuracy
- D. Complying with external regulations

**Answer: A**

Explanation:

AAISM states that an AI management system policy provides organizational structure by:

- \* defining AI objectives
- \* aligning governance
- \* outlining accountability
- \* defining roles, responsibilities, and guiding principles

Regulatory compliance (C) is a part of governance but not the overall purpose. Accuracy (B) and environmental impact (A) are narrower focus areas.

References: AAISM Study Guide - AI Management System Policies; Governance Framework Requirements.

#### NEW QUESTION # 95

An organization is deploying an automated AI cybersecurity system. Which of the following would be the MOST effective strategy to minimize human error and improve overall security?

- A. Utilizing machine learning (ML) algorithms to ensure responsible use
- B. Conducting periodic penetration testing
- C. Implementing manual monitoring of potential alerts
- D. Using historical data to train AI detection software

**Answer: D**

Explanation:

Training detection models on relevant, representative historical data improves signal quality, reduces false positives, and automates triage—directly lowering human workload and error rates (e.g., alert fatigue, missed correlations). Penetration testing is valuable but episodic and does not systematically reduce day-to-day operator error. "Ensure responsible use" is a governance aim, not a concrete method to cut human error in detection. Manual monitoring increases reliance on human judgment and is prone to inconsistency.

References: AI Security Management (AAISM) Body of Knowledge: Model Development & Evaluation Controls; Data Selection and Representativeness; Operationalization to Reduce Human Error. AAISM Study Guide: Tuning Detection Systems with Historical Corpora; Alert Quality, Precision/Recall, and SOC Workflow Integration.

#### NEW QUESTION # 96

An organization plans to apply an AI system to its business, but developers find it difficult to predict system results due to lack of visibility to the inner workings of the AI model. Which of the following is the GREATEST challenge associated with this situation?

- A. Determining average turnaround time for AI transaction completion
- B. Continuing operations to meet expected AI security requirements
- C. Gaining the trust of end users through explainability and transparency
- D. Assigning a risk owner who is responsible for system uptime and performance

**Answer: C**

Explanation:

AAISM materials identify explainability and transparency as the greatest challenge when models operate as

