

New AAISM Test Blueprint - AAISM Training Questions



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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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 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.

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ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q54-Q59):

NEW QUESTION # 54

Which of the following is a key risk indicator (KRI) for an AI system used for threat detection?

- A. Number of training epochs
- B. Number of layers in the neural network
- **C. Number of system overrides by cyber analysts**
- D. Training time of the model

Answer: C

Explanation:

AAISM materials emphasize that in operational AI systems, key risk indicators (KRIs) must reflect risks to performance and reliability rather than technical design factors alone. In the case of threat detection, the most relevant KRI is the frequency of system overrides by human analysts, as this indicates a lack of trust, frequent false positives, or poor detection accuracy. Training epochs, model depth, and training time are technical metrics but do not directly measure operational risk. Analyst overrides represent a practical measure of system effectiveness and risk.

References:

AAISM Study Guide - AI Risk Management (Operational KRIs for AI Systems) ISACA AI Security Management - Monitoring AI Effectiveness

NEW QUESTION # 55

Which of the following would BEST help mitigate vulnerabilities associated with hidden triggers in generative AI models?

- A. Regularly retraining the model using a diverse data set
- B. Monitoring model outputs and suspicious patterns to detect trigger activations
- C. Applying differential privacy and masking sensitive patterns in the training data
- **D. Incorporating adversarial training to expose and neutralize potential triggers**

Answer: D

Explanation:

Hidden triggers are adversarial backdoors planted in AI models, activated only by specific inputs. The AAISM materials specify that the best mitigation is to use adversarial training, which deliberately exposes the model to potential trigger inputs during training so it can learn to neutralize or resist them. Retraining with diverse data reduces bias but does not address hidden triggers. Differential privacy is focused on privacy preservation, not adversarial resilience. Monitoring outputs can help with detection but is reactive rather than preventative. The proactive solution highlighted in the study guide is adversarial training.

References:

AAISM Exam Content Outline - AI Risk Management (Backdoors and Hidden Triggers) AI Security Management Study Guide - Adversarial Training as a Mitigation Control

NEW QUESTION # 56

After deployment, an AI model's output begins to drift outside of the expected range. Which of the following is the development team's BEST course of action?

- A. Take the AI model offline
- **B. Return to an earlier phase in the AI life cycle**
- C. Adjust the hyperparameters of the AI model
- D. Create an emergency change request to correct the issue

Answer: B

Explanation:

AAISM emphasizes that when model drift occurs, the best response is not a quick fix but rather to revisit an earlier phase of the AI life cycle to address data quality, retraining, or evaluation processes. Simply taking the model offline halts functionality without resolution, while adjusting hyperparameters or issuing emergency changes treats the symptom rather than the root cause. Proper governance requires returning to the design or training phases to re-establish stability, accuracy, and compliance of the model. Thus, the correct approach is to return to an earlier AI lifecycle phase.

References:

AAISM Exam Content Outline - AI Risk Management (Model Drift and Lifecycle Responses) AI Security Management Study Guide - Continuous Improvement in AI Lifecycle

NEW QUESTION # 57

From a risk perspective, which of the following is the MOST important step when implementing an adoption strategy for AI systems?

- A. Establishing a comprehensive AI risk assessment framework
- B. Benchmarking against peer organizations' AI risk strategies
- **C. Conducting an AI risk assessment and updating the enterprise risk register**
- D. Implementing a robust risk analysis methodology tailored to AI-specific tasks

Answer: C

Explanation:

AAISM guidance states that when adopting AI, the most important step is to conduct a risk assessment and update the enterprise risk register. This ensures AI-specific risks are identified, documented, and integrated into the organization's existing governance structures. Benchmarking peers provides context but does not address internal risk. Implementing methodologies and frameworks are important, but they precede or follow the assessment process. The decisive step that connects adoption to enterprise risk governance is updating the risk register with AI-specific risks.

References:

AAISM Study Guide - AI Risk Management (Integration with Enterprise Risk Management) ISACA AI Security Management - Risk Assessment and Register Updates

NEW QUESTION # 58

An automotive manufacturer uses AI-enabled sensors on machinery to monitor variables such as vibration, temperature, and pressure. Which of the following BEST demonstrates how this approach contributes to operational resilience?

- A. Automating equipment repairs without any human intervention
- B. Performing regular maintenance based on manufacturer recommendations
- **C. Scheduling repairs for critical equipment based on real-time condition monitoring**
- D. Conducting monthly manual reviews of maintenance schedules

Answer: C

Explanation:

AAISM highlights that AI-enabled predictive maintenance improves operational resilience by using real-time sensor monitoring to schedule repairs based on actual conditions rather than fixed schedules. This prevents unexpected breakdowns, reduces downtime, and ensures continuity of operations. Regular maintenance based on recommendations is static and may not reflect real conditions. Manual reviews are slow and inefficient.

Full automation of repairs without human oversight is not realistic or safe in critical manufacturing. The approach that best demonstrates resilience is real-time condition-based repair scheduling.

References:

AAISM Study Guide - AI Risk Management (Operational Resilience and Predictive Maintenance) ISACA AI Security Management - AI for Critical Infrastructure Reliability

NEW QUESTION # 59

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