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ISACA AAISM Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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.

ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q161-Q166):

NEW QUESTION # 161
An organization's CIO provided the AI steering committee with a list of AI technologies in use and tasked them with categorizing the technologies by risk. Which of the following should the committee do FIRST?

- A. Begin grouping similar AI products and solutions together
- B. Ensure the AI technologies are included in the asset inventory
- C. Assess risk levels based on risk appetite and regulatory requirements
- D. Identify vulnerabilities related to the technologies in use

Answer: B

Explanation:
AAISM governance practices state that before categorizing technologies by risk, the first step is to ensure that all AI systems are documented in the organizational asset inventory. A complete inventory provides the foundation for subsequent risk analysis, accountability, and governance. Grouping solutions, identifying vulnerabilities, and assessing risk levels come afterward, once inventory accuracy is established. Without confirming that the technologies are recorded in the inventory, risk categorization may miss critical assets.
References:
AAISM Study Guide - AI Governance and Program Management (AI Inventories as a Prerequisite to Risk Analysis) ISACA AI Security Management - Asset Visibility and Risk Categorization

NEW QUESTION # 162
From a risk perspective, which of the following is the MOST important step when implementing an adoption strategy for AI systems?

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

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 # 163
Which of the following would BEST help mitigate vulnerabilities associated with hidden triggers in generative AI models?

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

Answer: B

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 # 164
What BEST protects trade secrets related to AI technologies during their life cycle?

- A. Patenting AI algorithms and data
- B. Enforcing trademark rights
- C. Restricting access to sensitive data
- D. Watermarking AI output

Answer: C

Explanation:
AAISM emphasizes access control and data security as the strongest mechanisms to protect trade secrets, including:
* proprietary algorithms
* training datasets
* model weights
* internal design documentation
Trademarks (A) protect brand, not trade secrets. Patents (C) require public disclosure. Watermarks (D) protect generated content, not internal trade secrets.
References: AAISM Study Guide - AI Intellectual Property Protection & Access Controls.

NEW QUESTION # 165
An organization is implementing AI agent development across engineering teams. What should AI-specific training focus on?

- A. Dataset bias, explainability, fairness
- B. Prompt injection, agent memory control, insecure tool execution
- C. API abuse, data leakage, third-party plug-in risk
- D. Output moderation, hallucination handling, policy alignment

Answer: B

Explanation:
AAISM states that AI agent security training should focus on the unique risks of agentic systems, which include:
* prompt injection
* memory control and context hijacking
* unsafe tool execution (agents triggering unauthorized actions)

These risks are specific to autonomous or semi-autonomous AI agents.
Bias, fairness (B) and output moderation (C) are important but not the most critical for agent security. API abuse and plug-in risk (D) matter but are secondary.
References: AAISM Study Guide - Agentic AI Security; Prompt Injection and Tool Execution Risks.

NEW QUESTION # 166
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