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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. |

ISACA Advanced in AI Security Management (AAISM) Exam Sample Questions (Q240-Q245):

NEW QUESTION # 240

Which of the following mitigation control strategies would BEST reduce the risk of introducing hidden backdoors during model fine-tuning via third-party components?

- A. Disabling runtime logs during model training
- B. Performing threat modeling and integrity checks
- C. Implementing unsupervised learning methods
- D. Leveraging open-source models and packages

Answer: B

Explanation:

AAISM highlights threat modeling and supply chain integrity checks as key controls for managing AI- specific risks, including hidden backdoors in third-party models, libraries, or fine-tuning artifacts. The official guidance states that organizations should "identify adversarial insertion points, verify component integrity, and continuously test for malicious behaviors introduced via external components." This is precisely what option B describes. Simply using open-source (A) does not guarantee security; code can still contain malicious modifications. Disabling runtime logs (C) would reduce visibility, making backdoor detection harder. Choosing unsupervised learning (D) is a modeling approach and has no inherent relation to backdoor risk reduction. The explicit combination of AI-focused threat modeling and integrity verification of external components is the recommended best practice to mitigate this class of attack.

References: AI Security Management™ (AAISM) Study Guide - AI Supply Chain Risk Management; Threat Modeling and Component Integrity.

NEW QUESTION # 241

Which of the following would BEST ensure a proper business continuity plan (BCP) is in place for an AI solution?

- A. Increasing the detail of AI solution backup and restoration processes
- B. Enhancing monitoring and detection of model failures and anomalies
- C. Testing the AI infrastructure failover mechanisms
- D. Implementing access controls to protect the AI system from unauthorized use

Answer: C

Explanation:

Effective AI BCP requires validation through exercises and controlled failover tests to prove recovery objectives can be met in practice. Merely documenting backups (Option D), hardening access (Option B), or improving monitoring (Option A) does not confirm that the AI stack-data pipelines, feature stores, model registries, inference services, and dependent infrastructure-can actually fail over and recover within RTO

/RPO. AAISM prescribes periodic BCP/DR testing (including model artifact restoration, configuration reconstitution, dependency failover, and data pipeline continuity) to verify readiness and identify gaps before real incidents.

References: AI Security Management (AAISM) Body of Knowledge: Business Continuity & Disaster Recovery for AI; Validation and Exercising of Continuity Plans; RTO/RPO for Models, Data, and Pipelines.

AAISM Study Guide: Operational Resilience for AI Systems; BCP/DR Test Scenarios (model registry, feature store, pipeline recovery); Continuity Metrics and Evidence of Readiness.

NEW QUESTION # 242

Which of the following is the MOST important consideration when deciding how to compose an AI red team?

- A. AI use cases
- B. Compliance requirements
- C. Resource availability
- D. Time-to-market constraints

Answer: A

Explanation:

AAISM materials specify that the composition of an AI red team must be tailored to the organization's AI use cases. The purpose of red-teaming is to simulate realistic adversarial conditions aligned with the actual applications of AI. For example, testing a generative model requires different expertise than testing a fraud detection system. While resource availability, compliance requirements, and time-to-market pressures are practical considerations, they are secondary to aligning team expertise with use case scenarios. The most important factor is therefore the AI use cases themselves.

References:

AAISM Exam Content Outline - AI Risk Management (Red Teaming Considerations) AI Security Management Study Guide - Tailoring Adversarial Testing to Use Cases

NEW QUESTION # 243

Which of the following controls would BEST help to prevent data poisoning in AI models?

- A. Implementing a strict data validation mechanism
- B. Regularly updating the foundational model
- C. Establishing continuous monitoring
- D. Increasing the size of the training data set

Answer: A

Explanation:

The most direct preventative control against data poisoning is robust data validation/ingestion gating: provenance checks, schema and constraint validation, anomaly/outlier screening, label consistency tests, and whitelist/blacklist source controls before data reaches training pipelines. Larger datasets (A) don't inherently prevent poisoning; monitoring (C) is detective; updating a foundation model (D) does not address tainted inputs entering the pipeline.

References: AI Security Management (AAISM) Body of Knowledge - Adversarial ML Threats and Training-Time Attacks; Secure Data Ingestion and Validation Controls. AAISM Study Guide - Poisoning Prevention: Provenance, Validation, and Sanitization Gates.

NEW QUESTION # 244

An AI application development team has been given access to user information and now must format it to be readable by the AI model. During which phase of the data life cycle would this MOST likely occur?

- A. Data normalization
- B. Data preparation
- C. Data minimization
- D. Data collection

Answer: B

Explanation:

In the AI data lifecycle, converting raw user information into model-readable form (e.g., cleaning, parsing, feature engineering, encoding, normalization/standardization, and schema alignment) is performed during data preparation. This phase establishes input quality and structure prior to training and inference and may include normalization as one of several preparation steps. Data collection acquires data, minimization limits data to what's necessary, and normalization is a specific technique-not the overarching phase.

References: AI Security Management (AAISM) Body of Knowledge: Data Lifecycle-Preparation and Ingestion Controls; AAISM Study Guide: Data Preparation Activities (cleaning, labeling, feature engineering, encoding) and Quality Gates.

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