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PECB ISO-IEC-42001-Lead-Auditor Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Managing an ISOIEC 42001 audit program: This section of the exam measures the skills of an AI Compliance Officer and deals with overseeing an entire audit program. It involves managing multiple audits, tracking audit performance, and aligning audit outcomes with broader organizational goals related to AI governance.
Topic 2	<ul style="list-style-type: none">AI management system requirements: This section of the exam measures the skills of a Lead Auditor and focuses on understanding the key requirements outlined in ISOIEC 42001. It explains how organizations should structure their AI-related activities and processes to meet compliance standards effectively.

Topic 3	<ul style="list-style-type: none"> • Fundamental principles and concepts of an AI management system: This section of the exam measures the skills of an AI Compliance Officer and covers the basic principles of artificial intelligence, including ethical use, trustworthiness, and transparency. It introduces the purpose and importance of having an AI management system in place for responsible AI governance.
Topic 4	<ul style="list-style-type: none"> • Conducting an ISO • IEC 42001 audit: This section of the exam measures the skills of a Lead Auditor and focuses on executing the audit according to ISO • IEC 42001 guidelines. It includes collecting evidence, interviewing relevant staff, and evaluating compliance with the AI management system standards.

PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12

A global bank is currently evaluating the effectiveness of its AI management system controls through an AIMS audit. Which role is being played by this company?

- A. A certification body
- **B. An auditee**
- C. An advisory body
- D. An accreditation body

Answer: B

Explanation:

In this context, the global bank is the auditee, as it is the organization being audited. According to ISO 19011:

2018 - Clause 3.12, an auditee is "the organization being audited."

Since the bank is undergoing an internal or external audit of its AI Management System (AIMS), it assumes the role of the entity whose AIMS is being evaluated for effectiveness, compliance, and performance.

* Accreditation body is responsible for accrediting certification bodies.

* Certification body conducts audits for conformity assessments.

* Advisory body provides consultation but does not participate directly in audits.

Reference: ISO 19011:2018 - Clause 3.12 (Auditee)

PECB Lead Auditor Guide - Domain 5: "Roles in the Audit Process"

NEW QUESTION # 13

Which control in Annex A emphasizes the importance of security measures in AI system operations?

- A. Financial Auditing
- **B. Access Control**
- C. Performance Metrics
- D. Customer Feedback

Answer: B

Explanation:

Annex A of ISO/IEC 42001:2023 provides reference controls to support operational and ethical AI governance. The control that emphasizes security in AI system operations is:

A: 8.2.2 - Access Control: This control requires that only authorized individuals or systems can access, modify, or influence the AI system, ensuring data integrity and protection of critical operations.

Access control is a foundational security control used to prevent unauthorized interference or manipulation of AI behavior or data pipelines.

NEW QUESTION # 14

Which core element of AIMS is defined as: "Organizations are responsible for the development, deployment, and use of AI systems,

and their potential impacts"?

- A. Accountability
- B. Commitment
- C. Responsibility
- D. None of the above

Answer: A

Explanation:

The correct core element is Accountability.

According to ISO/IEC 42001:2023 - Clause 5.3, and PECB Lead Auditor Guide - Domain 1, accountability is defined as the obligation of organizations to take responsibility for the outcomes and impacts of AI systems across the lifecycle - including design, development, deployment, and operation.

This includes establishing:

- * Clear roles and responsibilities
- * Oversight mechanisms
- * Escalation procedures for unintended consequences

It directly addresses the ethical and governance need to ensure AI systems are not used irresponsibly or without clear attribution.

Reference: ISO/IEC 42001:2023 - Clause 5.3 (Organizational roles, responsibilities and authorities) PECB Lead Auditor Guide - Domain 1: "Accountability in AI Governance"

NEW QUESTION # 15

Scenario 7 (continued):

Scenario 7: ICure, headquartered in Bratislava, is a medical institution known for its use of the latest technologies in medical practices. It has introduced groundbreaking AI-driven diagnostics and treatment planning tools that have fundamentally transformed patient care.

ICure has integrated a robust artificial intelligence management system AIMS to manage its AI systems effectively. This holistic management framework ensures that ICure's AI applications are not only developed but also deployed and maintained to adhere to the highest industry standards, thereby enhancing efficiency and reliability.

ICure has initiated a comprehensive auditing process to validate its AIMS's effectiveness in alignment with ISO/IEC 42001. The stage 1 audit involved an on-site evaluation by the audit team. The team evaluated the site-specific conditions, interacted with ICure's personnel, observed the deployed technologies, and reviewed the operations that support the AIMS. Following these observations, the findings were documented and communicated to ICure, setting the stage for subsequent actions.

Unforeseen delays and resource allocation issues introduced a significant gap between the completion of stage 1 and the onset of stage 2 audits. This interval, while unplanned, provided an opportunity for reflection and preparation for upcoming challenges.

After four months, the audit team initiated the stage 2 audit. They evaluated AIMS's compliance with ISO/IEC 42001 requirements, paying special attention to the complexity of processes and their documentation. It was during this phase that a critical observation was made:

ICure had not fully considered the complexity of its processes and their interactions when determining the extent of documented information. Essential processes related to AI model training, validation, and deployment were not documented accurately, hindering effective control and management of these critical activities. This issue was recorded as a minor nonconformity, signaling a need for enhanced control and management of these vital activities.

Simultaneously, the auditor evaluated the appropriateness and effectiveness of the "AIMS Insight Strategy," a procedure developed by ICure to determine the AIMS internal and external challenges. This examination identified specific areas for improvement, particularly in the way stakeholder input was integrated into the system. It highlighted how this could significantly enhance the contribution of relevant parties in strengthening the system's resilience and effectiveness.

The audit team determined the audit findings by taking into consideration the requirements of ICure, the previous audit records and conclusions, the accuracy, sufficiency, and appropriateness of evidence, the extent to which planned audit activities are realized and planned results achieved, the sample size, and the categorization of the audit findings. The audit team decided to first record all the requirements met; then they proceeded to record the nonconformities.

Based on the scenario above, answer the following question:

Question:

Which clause did the audit team evaluate when assessing the appropriateness of the "AIMS Insight Strategy" procedure?

- A. Clause 4.3 Determining the scope of the AI management system
- B. Clause 4.1 Understanding the organization and its context
- C. Clause 5.2 AI policy

Answer: B

Explanation:

The "AIMS Insight Strategy" refers to ICure's method for identifying internal and external challenges, which maps directly to Clause 4.1.

* ISO/IEC 42001:2023 Clause 4.1 requires organizations to determine external and internal issues relevant to the AIMS, including stakeholder needs and challenges.

* The Lead Auditor Manual states: "Clause 4.1 focuses on environmental, regulatory, technological, and organizational factors that affect AI operations and should be addressed through strategic tools like insight strategies." Reference: ISO/IEC 42001:2023 Clause 4.1; Lead Auditor Study Guide Module 2.

NEW QUESTION # 16

Question:

During an audit, the auditor employed data analytic technology to identify anomalies and unusual patterns in the decision-making processes of an AI system used by a financial institution to approve or reject loan applications. Which data analytic technology did the auditor use?

- A. Data mining
- B. Predictive analytics
- C. Visual analytics
- D. Text analytics

Answer: A

Explanation:

The auditor used Data Mining.

* Data mining involves exploring large datasets to identify patterns, anomalies, or relationships.

* ISO/IEC 20546:2019 Clause 3.5 defines data mining as: "The process of discovering patterns, correlations, anomalies, and associations within large datasets."

* In ISO/IEC 42001:2023, auditors are encouraged in Clause 9.2.2 to use appropriate technological tools to analyze AI system behavior, including using big data technologies for pattern recognition during audits.

Reference: ISO/IEC 20546:2019 Clause 3.5; ISO/IEC 42001:2023 Clause 9.2.2.

NEW QUESTION # 17

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