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PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead

Auditor Exam Sample Questions (Q83-Q88):

NEW QUESTION # 83

Scenario 7:

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 phase of the Stage 1 audit was NOT conducted by the audit team?

- A. Prepare for on-site activities
- B. Conduct on-site activities
- C. Prepare audit test plans

Answer: C

Explanation:

The scenario mentions on-site evaluation and preparation but does not mention audit test plan preparation, which is a key part of audit planning.

* ISO/IEC 17021-1:2015 Clause 9.2.3.1 and ISO 19011:2018 Clause 6.4.3 both emphasize the importance of developing test/check plans based on audit criteria, risks, and scope prior to the audit.

* The ISO/IEC 42001 Lead Auditor Guide includes audit test plan preparation under pre-audit responsibilities, and omitting it is a planning deficiency.

Reference: ISO 19011:2018 Clause 6.4.3; ISO/IEC 17021-1:2015 Clause 9.2.3.1.

NEW QUESTION # 84

According to the core element of 'Privacy and Security,' what is essential when developing AI systems?

- A. Ensuring the protection of personal data and system security
- B. Reducing the development time
- C. Enhancing the graphical user interface
- D. Increasing the efficiency of AI algorithms

Answer: A

Explanation:

The Privacy and Security principle focuses on safeguarding personal data and ensuring the robustness of AI systems against security threats.

As outlined in ISO/IEC 42001:2023 - Clause 6.1.2 and 8.2.3, organizations must address data protection, cybersecurity, and access control throughout the AI system lifecycle.

This is particularly relevant in contexts where AI systems handle sensitive or identifiable data, such as health, finance, or biometrics.

Reference: ISO/IEC 42001:2023 - Clause 6.1.2 (AI-related risks and impacts), Clause 8.2.3 (Controls for privacy, ethics, and security) PECB Lead Auditor Guide - Domain 1: "Trustworthy AI - Privacy and Security Requirements"

NEW QUESTION # 85

Question:

Which of the following is NOT a guide's responsibility?

- A. Drafting and communicating the conclusions of the audit
- B. Witnessing the audit activities on behalf of the client
- C. Establishing contacts and timing for interviews

Answer: A

Explanation:

A guide is typically a representative of the auditee assigned to assist the audit team, not to perform audit duties.

* ISO 19011:2018 Clause 5.4.7 states: "The responsibilities of guides include establishing contacts, arranging visits, ensuring safety, and facilitating communication - but not evaluating or concluding audit findings."

* Drafting and communicating audit conclusions is the responsibility of the audit team leader under ISO/IEC 17021-1:2015 Clause 9.4.6.

Reference: ISO 19011:2018 Clause 5.4.7; ISO/IEC 17021-1:2015 Clause 9.4.6.

NEW QUESTION # 86

Based on scenario 3, which of the following AI technologies did Augustine utilize to analyze large datasets?

Refer to the fourth paragraph.

Scenario 3: Heala specializes in developing AI-driven solutions for the healthcare sector. With a keen focus on leveraging AI to revolutionize patient care, diagnostics, and treatment planning, the company has implemented an artificial intelligence management system AIMS based on ISO/IEC 42001. After a year of having the AIMS in place, the company decided to apply for a certification audit.

It contracted a local certification body, who established the audit team and assigned the audit team leader.

Augustine, the designated audit team leader, has a wide

range of skills relevant to various auditing domains. His proficiency encompasses audit principles, processes, and methods, as well as standards for management systems and additional references. Furthermore, he is knowledgeable about the Heala's context and relevant statutory and regulatory requirements.

Augustine first gathered management review records, interested party feedback logs, and revision histories for Heala's AIMS. This crucial step laid the groundwork for a deeper investigation, which included conducting comprehensive interviews with key personnel to understand how feedback from interested parties directly influenced updates to the AIMS and its strategic direction. Augustine's thorough evaluation process aimed to verify Heala's commitment to integrating the needs and expectations of interested parties, a critical requirement of ISO/IEC 42001.

Augustine also integrated a sophisticated AI tool to analyze large datasets for patterns and anomalies, and thus have a more informed and data driven audit process.

This AI solution, known for its ability to sift through vast amounts of data with unparalleled speed and accuracy, enabled Augustine to identify irregularities and trends that would have been nearly impossible to detect through manual methods. The tool was also helpful in preparing hypotheses based on data.

During the audit, Augustine failed to fully consider Heala's critical processes, expectations, the complexity of audit tasks, and necessary resources beforehand. This oversight compromised the audit integrity and reliability, reflecting a significant deviation from the diligence and informed judgment expected of auditors.

- A. Expert systems
- B. Machine learning tool
- C. Inductive language programming
- D. Autonomous systems

Answer: B

Explanation:

The scenario describes an AI tool that was "known for its ability to sift through vast amounts of data with unparalleled speed and accuracy" and "was also helpful in preparing hypotheses based on data." These characteristics align most closely with machine learning technologies.

Expert systems use rule-based logic and are not typically data-driven.

Inductive programming focuses on generating programs from examples, which was not part of this audit.

Autonomous systems make independent decisions in operational environments, which doesn't apply here.

Machine learning (a subdomain of AI) includes techniques for pattern detection, anomaly detection, and hypothesis generation from data - which matches Augustine's tool.

Reference:

ISO/IEC 22989:2022 - Artificial Intelligence Concepts and Terminology

ISO/IEC 42001:2023, Clause 6.1.3 - Use of AI tools in audit processes

PECB ISO/IEC 42001 Lead Auditor Guide, Annex A - Emerging Technologies in Audits Certainly! Below is the properly formatted response to Question No. 26, in accordance with your specifications.

NEW QUESTION # 87

Scenario 2: OptiFlow is a logistics company located in New Delhi, India. The company has enhanced its operational efficiency and customer service by integrating AI across various domains, including route optimization, inventory management, and customer support. Recognizing the importance of AI in its operations, OptiFlow decided to implement an Artificial Intelligence Management System (AIMS) based on ISO/IEC 42001 to oversee and optimize the use of AI technologies.

To address Clauses 4.1 and 4.2 of the standard, OptiFlow identified and analyzed internal and external issues and needs and expectations of interested parties. During this phase, it identified specific risks and opportunities related to AI deployment, considering the system's domain, application context, intended use, and internal and external environments. Central to this initiative was the establishment and maintenance of AI risk criteria, a foundational step that facilitated comprehensive AI risk assessments, effective risk treatment strategies, and precise evaluations of risk impacts. This implementation aimed to meet AIMS's objectives, minimize adverse effects, and promote continuous improvement. OptiFlow also planned and integrated strategies to address risks and opportunities into AIMS's processes and assessed their effectiveness.

OptiFlow set measurable AI objectives aligned with its AI policy across all organizational levels, ensuring they met applicable requirements and matched the company's vision. The company placed strong emphasis on the monitoring and communication of these objectives, ensuring they were updated annually or as needed to reflect changes in technology, market demands, or internal processes. It also documented the objectives, making them accessible across the company.

To guarantee a structured and consistent AI risk assessment process, OptiFlow emphasized alignment with its AI policy and objectives. The process included ensuring consistency and comparability, identifying, analyzing, and evaluating AI risks.

OptiFlow prioritizes its AIMS by allocating the necessary resources for its comprehensive development and continuous enhancement. The company carefully defines the competencies needed for personnel affecting AI performance, ensuring a high level of expertise and innovation.

OptiFlow also manages effective internal and external communications about its AIMS, aligning with ISO/IEC 42001 requirements by maintaining and controlling all required documented information. This documentation is meticulously identified, described, and updated to ensure its relevance and accessibility.

Through these strategic efforts, OptiFlow upholds a commitment to excellence and leadership in AI management practices.

To comply with Clause 9 of ISO/IEC 42001, the company determined what needs to be monitored and measured in the AIMS. It planned, established, implemented, and maintained an audit program, reviewed the AIMS at planned intervals, documented review results, and initiated a continuous feedback mechanism from all interested parties to identify areas of improvement and innovation within the AIMS. Which of OptiFlow's implemented requirements is NOT included in Clause 9 (Performance Evaluation) of ISO/IEC 42001? Refer to Scenario 2.

- A. Initiation of a continuous feedback mechanism from interested parties
- B. Implementation of an audit program
- C. Review of the AIMS in planned intervals

Answer: A

Explanation:

Clause 9 of ISO/IEC 42001 addresses Performance Evaluation and includes:

* 9.1: Monitoring, measurement, analysis, and evaluation

* 9.2: Internal audit

* 9.3: Management review

From the scenario:

* OptiFlow implemented an audit program# aligns with Clause 9.2

* It reviewed the AIMS at planned intervals # aligns with Clause 9.3

* The "continuous feedback mechanism from interested parties" supports continual improvement but is more aligned with Clause 10 (Improvement), not Clause 9.

Therefore, while valuable for continuous innovation and improvement, this feedback mechanism falls outside the formal scope of Clause 9.

Reference:

* ISO/IEC 42001:2023, Clause 9 - Performance evaluation

* ISO/IEC 42001:2023, Clause 10.1 - Continual improvement

* PECB ISO/IEC 42001 Lead Auditor Study Guide, Chapter 9

NEW QUESTION # 88

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