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

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<ul style="list-style-type: none">• Managing an ISO• IEC 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.

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PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q46-Q51):

NEW QUESTION # 46

Scenario: NeuraGen, founded by a team of AI experts and data scientists, has gained attention for its advanced use of artificial intelligence. It specializes in developing personalized learning platforms powered by AI algorithms. MindMeld, its innovative product, is an educational platform that uses machine learning and stands out by learning from both labeled and unlabeled data during its training process. This approach allows MindMeld to use a wide range of educational content and personalize learning experiences with exceptional accuracy. Furthermore, MindMeld employs an advanced AI system capable of handling a wide variety of tasks, consistently delivering a satisfactory level of performance. This approach improves the effectiveness of educational materials and adapts to different learners' needs.

NeuraGen skillfully handles data management and AI system development, particularly for MindMeld.

Initially, NeuraGen sources data from a diverse array of origins, examining patterns, relationships, trends, and anomalies. This data is then refined and formatted for compatibility with MindMeld, ensuring that any irrelevant or extraneous information is systematically eliminated. Following this, values are adjusted to a unified scale to facilitate mathematical comparability. A crucial step in this process is the rigorous removal of all personally identifiable information (PII) to protect individual privacy. Finally, the data is subjected to quality checks to assess its completeness, identify any potential bias, and evaluate other factors that could impact the platform's efficacy and reliability.

NeuraGen has implemented an advanced artificial intelligence management system (AIMS) based on ISO /IEC 42001 to support its efforts in AI-driven education. This system provides a framework for managing the life cycle of AI projects, ensuring that development and deployment are guided by ethical standards and best practices.

NeuraGen's top management is key to running the AIMS effectively. Applying an international standard that specifically provides guidance for the highest level of company leadership on governing the effective use of AI, they embed ethical principles such as fairness, transparency, and accountability directly into their strategic operations and decision-making processes.

While the company excels in ensuring fairness, transparency, reliability, safety, and privacy in its AI applications, actively preventing bias, fostering a clear understanding of AI decisions, guaranteeing system dependability, and protecting user data, it struggles to clearly define who is responsible for the development, deployment, and outcomes of its AI systems. Consequently, it becomes difficult to determine responsibility when issues arise, which undermines trust and accountability, both critical for the integrity and success of AI initiatives.

What kind of AI system does MindMeld utilize?

- A. Strong AI
- **B. Narrow AI**
- C. General AI

Answer: B

Explanation:

MindMeld is described as an advanced AI system capable of performing a wide range of tasks within the domain of personalized education, delivering high performance consistently. However, it is still specialized and focused on a specific field - educational content delivery and personalization. This matches the definition of Narrow AI.

Narrow AI (also known as Weak AI) is designed and trained for a particular task or a narrow range of tasks. It may appear highly intelligent in its niche but lacks generalization beyond its scope.

General AI or Strong AI (options B and C) refer to systems with human-like reasoning and the ability to understand, learn, and apply knowledge across a wide range of domains, not just a specific task or industry.

There is currently no commercially deployed General or Strong AI. Therefore, based on the description in the scenario, MindMeld falls under Narrow AI.

Reference:

* ISO/IEC 42001:2023, Clause 4.2 - Understanding the nature and scope of the AI system, including intended purpose, tasks, and context.

- * ISO/IEC 22989:2022 (Artificial Intelligence - Concepts and terminology), which defines:
- * Narrow AI as AI systems that are designed to perform specific tasks (Clause 3.15)
- * General AI (AGI) as theoretical systems with the capacity for general cognitive functions like a human (Clause 3.16)

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NEW QUESTION # 47

The process to assess the potential consequences for individuals or groups of individuals, or both, and societies that can result from the AI system throughout its life cycle is known as:

- A. AI System Impact Assessment
- B. AI System Risk Assessment
- C. None of the above
- D. Documentation of AI Systems

Answer: A

Explanation:

The correct term here is AI System Impact Assessment (AIIA), which is distinctly referenced in ISO/IEC 42001:2023 - Clause 6.1.2 as part of the organization's process to identify and assess potential impacts of AI systems on stakeholders.

An AIIA is designed to evaluate the ethical, societal, legal, and human rights implications of AI use. It supports transparency, stakeholder trust, and ethical alignment.

While AI Risk Assessment (Clause 6.1.1) focuses more on organizational and system-level risks (e.g., technical, legal), the Impact Assessment looks at external consequences—especially for individuals and groups.

Reference: ISO/IEC 42001:2023 - Clause 6.1.2 (AI impact identification and assessment) PECB Lead Auditor Guide - Domain 2: "Planning and Risk Assessment," Subsection: AI Impact Assessment

NEW QUESTION # 48

What certification recommendation did the auditee receive?

Scenario 8: VeridicAI, based in San Francisco, USA, specializes in market research using AI technologies to analyze customer behavior. Founded in 2023, the company employs natural language processing, machine learning, and predictive analytics to provide real-time insights to a range of businesses. VeridicAI has implemented an artificial intelligence management system AIMS based on ISO/IEC 42001 to manage its AI technologies effectively. The AIMS scope includes select departments within the company, for which it has received a four-year certification against ISO/IEC 42001. Committed to transparency, VeridicAI publicly shares details of this certification.

As the certification nears its end, VeridicAI is preparing for an audit to renew its certification.

The audit process was led by Sharona, the audit team leader, who is a full-time employee of the certification body. Sharona and the audit team undertook all planned audit activities. Afterward, they organized the closing meeting with VeridicAI's management. During the meeting, Sharona and the team made a recap on audit objectives and scope, presented the audit findings and conclusions, presented identified nonconformities, and organized a session for questions and answers for the auditee.

VeridicAI received a conditional recommendation for certification, underscoring its compliance with the industry's standards.

Sharona confirmed that the company met the essential requirements but noted some identified minor nonconformities. In response, VeridicAI compiled and submitted a comprehensive action plan that addresses all identified nonconformities within a designated timeframe. Because of the comprehensive action plan, Sharona did not see the need for an additional on-site visit to verify the effectiveness of the action plan.

Sharona played an integral role in the certification decision process. Her thorough understanding of VeridicAI's operations, gained from the audit, guided the certification body towards a well-informed certification decision.

- A. Recommendation for certification
- B. Recommendation for certification conditional upon the filing of corrective action plans without a prior visit
- C. Recommendation for certification conditional upon the filing of corrective action plans with a prior visit

Answer: B

Explanation:

According to ISO/IEC 42001:2023 and auditing best practices as per ISO 19011:2018 guidelines, a conditional certification may be issued when an organization conforms to most of the requirements but has minor nonconformities that do not pose a major risk to the system's effectiveness. In this case, VeridicAI received a conditional recommendation based on minor nonconformities. They

submitted a comprehensive action plan, and the audit leader decided no additional on-site visit was necessary. ISO/IEC 42001:2023 refers to such decisions under Clause 9.5 (Improvement), which supports corrective actions based on minor issues without necessarily requiring physical validation if the evidence submitted is sufficient.

Reference:

ISO/IEC 42001:2023 Clause 9.5 - Nonconformity and Corrective Action

ISO/IEC 17021-1:2015 - Requirements for bodies providing audit and certification of management systems ISO 19011:2018

Clause 6.4.10 - Audit Conclusion and Recommendation

NEW QUESTION # 49

Scenario 3 (continued):

ArBank is a financial institution located in Brussels, Belgium, which offers a diverse range of banking and investment services to its clients. To ensure the continual improvement of its operations, ArBank has implemented a quality management system QMS based on ISO 9001 and an artificial intelligence management system AIMS based on the requirements of ISO/IEC 42001.

Audrey, an experienced auditor, led an internal audit focused on the AIMS within ArBank. She assessed the chatbots integrated into the bank's website and mobile app, analyzing communications using big data technology to identify potential noncompliance, fraud, or unethical conduct. Instead of relying solely on the information provided by the chatbots, Audrey sought out evidence that would either confirm or challenge the validity of the data, ensuring her conclusions were based on reliable and accurate information. Her review of selected chatbot interactions confirmed they met their intended purpose.

For the specific context of ArBank's operations, Audrey utilized an AI system to assess the efficiency of the bank's digital infrastructure, focusing on tasks critical to the Finance Department. This AI system was able to analyze the functionality of chatbots integrated into ArBank's website and mobile app to determine if it adheres to ISO/IEC 42001 requirements and internal policies governing customer service in the banking sector.

In addition, Audrey conducted a deeper assessment of the bank's AIMS. Her evaluation included observing different stages of the AIMS life cycle, from development to deployment, to ensure that roles and responsibilities were clearly defined and aligned with ArBank's operational goals. She also evaluated the tools used to monitor and measure the performance of the AIMS.

Audrey continued the audit process by auditing ArBank's outsourced operations. Upon checking the contractual agreements between the two parties, Audrey decided that there was no need to gather audit evidence regarding the contractual agreement. She reviewed the company's processes for monitoring the quality of outsourced operations, determined whether appropriate governance processes are in place with regard to the engagement of outsourced persons or organizations, and reviewed and evaluated the company's plans in case of expected or unexpected termination of the outsourcing agreement.

Based on the scenario above, answer the following question:

Question:

Based on Scenario 3, which of the following AI technologies did Audrey employ to assess the efficiency of the bank's digital infrastructure?

- A. Artificial neural networks
- B. Semantic algorithms
- C. An expert system
- D. An autonomous system

Answer: A

Explanation:

Audrey used Artificial Neural Networks (ANNs).

Artificial neural networks are AI technologies capable of pattern recognition, data classification, and anomaly detection in large datasets, which is essential when assessing chatbot performance.

* ISO/IEC 22989:2022 Clause 6.6 states: "ANNs are AI systems inspired by biological neural networks, useful for analyzing structured and unstructured data."

* ISO/IEC 42001 indirectly refers to using appropriate AI systems for monitoring and assessing AI performance in Clause 8.1 (Operational Controls).

Reference: ISO/IEC 22989:2022 Clause 6.6; ISO/IEC 42001:2023 Clause 8.1 (Operational Controls).

NEW QUESTION # 50

Which control in Annex A of ISO 42001:2023 focuses on the need for stakeholder engagement in AI system development?

- A. Risk Assessment

- B. Continuous Improvement
- C. Data Management
- D. Stakeholder Consultation

Answer: D

Explanation:

Annex A - Control A.5.2.2: Stakeholder Consultation explicitly requires organizations to consult with relevant stakeholders (such as users, impacted communities, regulators, etc.) during the development and operation of AI systems.

This control emphasizes the importance of engaging stakeholders to identify expectations, values, ethical concerns, and social impact risks associated with the AI system.

Stakeholder engagement supports transparency, ethical alignment, and social acceptability of AI solutions.

Reference: ISO/IEC 42001:2023 - Annex A, Control A.5.2.2 (Stakeholder Consultation) PECB Lead Auditor Guide - Domain 2: "Governance and Control Requirements for Ethical AI"

NEW QUESTION # 51

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