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

| Topic   | Details  |
|---------|--|
| Topic 1 | <ul style="list-style-type: none"><li>• Fundamental audit concepts and principles: This section of the exam measures the skills of a Lead Auditor and outlines essential audit concepts such as evidence collection, impartiality, objectivity, and ethical conduct. It introduces the core principles that form the foundation of a reliable and consistent auditing process.</li></ul> |
| Topic 2 | <ul style="list-style-type: none"><li>• Closing an ISO</li><li>• IEC 42001 audit: This section of the exam measures the skills of an AI Compliance Officer and explains how to complete the audit process. It includes reporting findings, managing nonconformities, and conducting follow-ups to ensure continuous improvement and compliance.</li></ul>                                |
| Topic 3 | <ul style="list-style-type: none"><li>• 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 ISO</li><li>• IEC 42001. It explains how organizations should structure their AI-related activities and processes to meet compliance standards effectively.</li></ul>            |

## PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q76-Q81):

### NEW QUESTION # 76

Scenario 3:

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:

Which audit principle did Audrey demonstrate while assessing the chatbots?

- A. Impartiality
- B. Risk-based approach
- C. Due professional care
- D. Confidentiality

Answer: C

Explanation:

Audrey demonstrated Due Professional Care, which requires auditors to apply diligence and judgment when gathering and evaluating evidence, ensuring findings are based on reliable sources.

\* ISO/IEC 17021-1:2015 Clause 4.4.8 explains that auditors must exercise due professional care.

\* In the ISO/IEC 42001 Lead Auditor material under "Audit Principles," it states: "Auditors must act with responsibility, basing audit conclusions only on appropriate evidence, and validating the accuracy of evidence." Audrey sought to independently verify chatbot evidence instead of relying solely on provided data, perfectly demonstrating this principle.

Reference: ISO/IEC 17021-1:2015 Clause 4.4.8; ISO/IEC 42001:2023 Lead Auditor Training Module 4 ("Fundamental Principles of Auditing").

### NEW QUESTION # 77

Did OptiFlow comply with ISO/IEC 42001 requirements when establishing its AI objectives? Refer to Scenario 2.

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

- **A. Yes, AI objectives were established in compliance with ISO/IEC 42001 requirements**
- B. No, because ISO/IEC 42001 mandates that AI objectives must specifically include environmental impact assessments for each AI project
- C. No, because ISO/IEC 42001 requires organizations to update the AI objectives at least two times a year

**Answer: A**

Explanation:

ISO/IEC 42001:2023 Clause 6.2 requires organizations to:

- \* Establish AI objectives that are measurable and aligned with the AI policy.
- \* Ensure objectives are monitored, communicated, and updated as appropriate.
- \* Take into account applicable requirements, risks, opportunities, and system changes.

In the scenario:

- \* OptiFlow defined measurable AI objectives aligned with the AI policy.
- \* Objectives were updated annually or as needed - satisfying the "as appropriate" update condition.
- \* The company ensured communication and accessibility of objectives across the organization.

Option A is incorrect - the standard does not mandate biannual updates.

Option C is also incorrect - although environmental impact may be considered depending on organizational context, it is not mandated for all AI objectives.

Reference:

- \* ISO/IEC 42001:2023, Clause 6.2 - AI objectives and planning
- \* PECB ISO/IEC 42001 Lead Auditor Study Guide, Chapter 6.2

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### NEW QUESTION # 78

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. Sentiment analysis
- B. Text analytics
- C. Data mining
- D. Predictive analytics

**Answer: C**

Explanation:

The question refers to the auditor using technology to uncover anomalies and patterns in decision-making - this is characteristic of data mining.

Data mining is the process of discovering patterns, correlations, and anomalies from large datasets using statistical and computational techniques. It is commonly used during AI audits to detect inconsistencies or risks hidden in the data that may affect ethical or regulatory compliance.

\* Predictive analytics is focused on forecasting future outcomes.

\* Text analytics deals with extracting insights from unstructured text.

\* Sentiment analysis specifically focuses on emotional tone, not decision-making anomalies.

Reference:

ISO/IEC 42001:2023, Annex A - Data analysis and bias detection

PECB ISO/IEC 42001 Lead Auditor Guide - Section: Use of Data Mining in AI Audits ISO/IEC TR 24028:2020 -

Trustworthiness in AI systems: Role of data mining in audits Certainly! Below are the answers to Questions 36 through 38 from

Scenario 5, presented in the required format with references to ISO/IEC 42001:2023, ISO/IEC 17021-1:2015, ISO 19011:2018, and PECB's Lead Auditor Study Guide.

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### NEW QUESTION # 79

Question:

A certification body is conducting surveillance audits for a company managing multiple sites, including a temporary construction site with a limited duration.

The audit team is considering whether the presence of this temporary site should influence the frequency of surveillance audits.

Can this factor necessitate an adjustment in the audit schedule?

- A. Yes, because it represents a management system certification of limited duration
- B. Yes, but only if the construction site operates under different seasonal conditions
- C. No, temporary construction sites do not influence audit frequency

**Answer: A**

Explanation:

Temporary sites must be considered in surveillance audit planning, as they are time-limited and present specific operational risks.

\* ISO/IEC 17021-1:2015 Clause 9.6.2.2 states: "Audit frequency and scheduling must consider factors such as temporary sites, risk exposure, and operational changes."

\* The IAF MD1 Guidelines further support the adjustment of surveillance activities based on the presence of temporary sites or operations.

Reference: ISO/IEC 17021-1:2015 Clause 9.6.2.2; IAF MD1 Mandatory Document.

### NEW QUESTION # 80

Which among the following is NOT a level of AI?

- A. Artificial Narrow Intelligence
- B. Artificial Super Intelligence

- C. Artificial Machine Intelligence
- D. Artificial General Intelligence

**Answer: C**

Explanation:

The levels of AI commonly referenced in both ISO/IEC 42001 guidance materials and AI governance literature include:

- \* Artificial Narrow Intelligence (ANI)- Specialized in a single task
- \* Artificial General Intelligence (AGI)- Human-level general problem-solving capability
- \* Artificial Super Intelligence (ASI)- Hypothetical AI surpassing human intelligence Artificial Machine Intelligence is not a formally recognized level and does not appear in ISO/IEC 42001, nor in PECB's standard AI terminology.

The PECB Lead Auditor Guide defines the recognized levels under AI system classification and clarifies that terms like "Artificial Machine Intelligence" are non-standard or colloquial and not part of professional auditing or ISO frameworks.

## NEW QUESTION # 81

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