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

| Topic | Details |
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| Topic 1 | <ul style="list-style-type: none"> • 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. |
| Topic 2 | <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. |
| Topic 3 | <ul style="list-style-type: none"> • Preparing an ISO • IEC 42001 audit: This section of the exam measures the skills of a Lead Auditor and covers how to plan and prepare for an AI management system audit. It includes creating audit plans, selecting team members, and setting clear objectives to ensure a smooth audit process. |
| Topic 4 | <ul style="list-style-type: none"> • Closing an ISO • 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. |
| Topic 5 | <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 ISO • IEC 42001. It explains how organizations should structure their AI-related activities and processes to meet compliance standards effectively. |
| Topic 6 | <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. |

PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q79-Q84):

NEW QUESTION # 79

Question:

During the annual ISO/IEC 42001 audit at a financial company, the auditor selected and analyzed a sample of 5 out of 25 follow-up nonconformity reports to assess whether the company adheres to its follow-up process. What type of evidence did the auditor gather?

- A. Quantitative
- B. Observational
- C. Qualitative
- D. Semi-quantitative

Answer: A

Explanation:

The auditor gathered Quantitative evidence.

* Quantitative evidence is defined as evidence that is measurable and based on numbers or statistical sampling.

* ISO 19011:2018 Clause 6.5.5 states: "Quantitative audit evidence is numerical or measurable and collected through sampling measurements, or observations."

* Sampling nonconformity reports to check process adherence clearly falls under quantitative evidence.

Reference: ISO 19011:2018 Clause 6.5.5; ISO/IEC 42001:2023 Clause 9.2.2.

NEW QUESTION # 80

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.

Based on Scenario 1, which of the following processes did NeuraGen NOT conduct regarding data?

- A. Data preparation
- B. Filtering
- C. Data annotation

Answer: C

Explanation:

According to the scenario, NeuraGen conducts several data preparation steps, such as:

"Refining and formatting data for compatibility" # this is data preparation.

"Systematically eliminating irrelevant or extraneous information" # this is filtering.

"Adjusting values to a unified scale" # this is part of normalization under data preparation.

"Removal of all personally identifiable information (PII)" # this is data privacy processing.

However, there is no mention of "data annotation," which refers to the process of labeling data-particularly relevant in supervised learning. Since the scenario describes semi-supervised learning (both labeled and unlabeled data), annotation might exist, but the company has not described it as a process they conduct themselves. Thus, annotation is the missing element.

Reference:

ISO/IEC 42001:2023, Clause 7.4 - Data and input management

ISO/IEC 22989:2022, Clause 3.7 - Definitions for annotation and labeling ISO/IEC TR 24028:2020 - Data preparation practices for trustworthy AI

NEW QUESTION # 81

What should the auditor assess to verify the establishment of an internal audit program?

- A. Whether the organization conducts audits in a random manner
- B. Whether there's a systematic process for planning and maintaining an audit program
- C. Whether the auditee has general audit objectives, criteria, and scope for all the previous and upcoming audits
- D. Whether internal audits are only conducted post nonconformity findings

Answer: B

Explanation:

To verify the establishment of an internal audit program, the auditor must ensure there is a documented and systematic approach for planning, conducting, and maintaining internal audits. ISO/IEC 42001:2023 (Clause 9.2) and ISO 19011:2018 emphasize the need for audit programs to be risk-based and consistently applied - not random or ad hoc.

While general objectives and scope are important, they must be part of a structured program and planning process, making Option B the most accurate.

Reference:

ISO/IEC 42001:2023, Clause 9.2 - Internal audit program

ISO 19011:2018, Clause 5.4 - Establishing and maintaining an audit program
PECB ISO/IEC 42001 Lead Auditor Guide - Chapter: Internal Audit Program Requirements

NEW QUESTION # 82

An audit team member is tasked with evaluating a sophisticated AI system used for autonomous driving. They lack the necessary expertise but proceed without consulting a specialist. Which principle is being neglected in this scenario?

- A. Due Professional Care
- B. Integrity
- C. Confidentiality
- D. Independence

Answer: A

Explanation:

The principle being neglected is Due Professional Care.

According to ISO 19011:2018 - Clause 4(f), auditors are expected to apply diligence, competence, and judgment during audit activities. If an auditor proceeds with an audit without the required expertise, especially for a high-risk system like autonomous driving, this violates the principle of due care.

The PECB Lead Auditor Guide - Domain 3 clearly states that in complex technical environments (such as AI or autonomous systems), auditors must seek assistance from domain specialists when they lack direct experience.

NEW QUESTION # 83

Did the audit team conduct their meetings in accordance with best practices? Refer to Scenario 7.

Scenario 7: TastyMade, headquartered in Hamburg, Germany, is an established company in the food manufacturing industry that applies AI technologies in its operations. It has implemented an artificial intelligence management system AIMS based on ISO/IEC 42001 to further strengthen its AI management and ensure compliance with international standards. As part of its commitment to excellence and continual improvement, TastyMade is undergoing an audit process to achieve certification against ISO/IEC 42001. In preparation for the audit, TastyMade collaborated closely with the audit team leader to develop a detailed audit plan. This plan encompassed objectives, criteria, scope, and logistical arrangements for both on-site and remote audit activities. Recognizing the specialized nature of AI integration, a technical expert was brought in to support the audit team and ensure comprehensive coverage of relevant aspects. Upon discussion with the audit team leader, it was mutually decided that not every audit team member would need a guide throughout the audit process. At times, the TastyMade itself would assume the role of the guide, actively facilitating audit activities.

A formal opening meeting was held with TastyMade's management to provide an overview of the audit process and set expectations. During this meeting, key interested parties were briefed on the audit objectives and the methodologies that would be employed during the audit. Following the meeting, the audit team proceeded with their work, collecting information and conducting tests to evaluate the effectiveness of TastyMade's AIMS.

Daily evening meetings were held to review progress, discuss encountered issues, and facilitate collaboration among audit team members. The audit team leader adopted an open communication approach, encouraging all auditors to share their findings and challenges.

The communication regarding the progress of the audit

was informal, allowing for a fluid exchange of information and updates among team members.

To verify adherence to some requirements of clause 4.1 Understanding the organization and its context, the audit team arbitrarily selected for analysis a representative sample of AI management practices across different departments and functions within the company.

During the audit process, the technical expert uncovered certain technical and operational findings related to the integration and governance of AI systems.

Recognizing the significance of these findings, the expert promptly informed the audit team leader.

Understanding the need for further clarification and direct

communication, the audit team leader authorized the technical expert to address the findings directly with the auditee. However, to ensure proper oversight, the expert was supervised by one of the audit team members.

Throughout the audit, it became apparent that TastyMade promoted a culture of autonomy and decentralized decision-making in AI

integration processes. Employees were empowered to set goals, allocate responsibilities, and devise methodologies independently, with management providing guidance and support as needed. This approach fostered innovation and agility within the company

- A. Yes, but only if documented as formal meetings
- B. No, communication regarding the audit progress should have been always formal
- C. No, the audit team should have also held morning meetings for better coordination
- **D. Yes, the audit team meetings followed best practices**

Answer: D

Explanation:

ISO 19011:2018 recommends that audit teams conduct regular meetings during the audit to discuss progress, share findings, and coordinate. It does not require that all communication be formal. The scenario highlights evening meetings used for collaboration, issue discussion, and open communication, which are aligned with audit best practices and promote transparency and team effectiveness.

There is no requirement mandating morning meetings or strictly formal communication unless specified by the audit plan.

Reference:

ISO 19011:2018, Clause 6.4.9 - Conducting audit team meetings

PECB ISO/IEC 42001 Lead Auditor Study Guide - Section: In-Audit Team Coordination

NEW QUESTION # 84

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