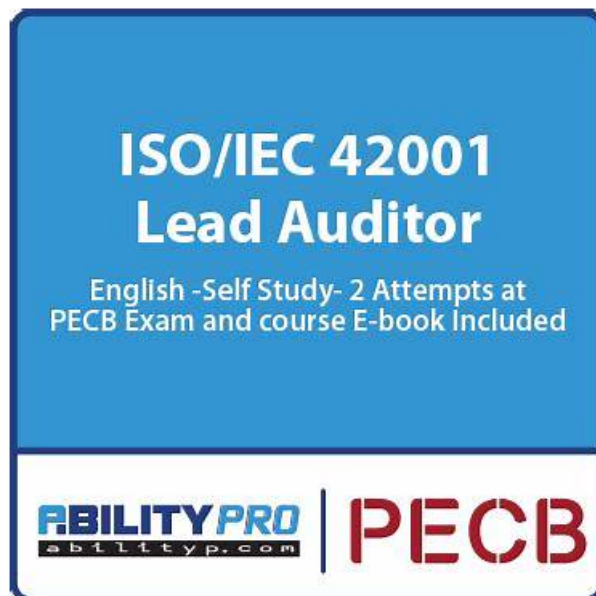# Free PDF 2026 PECB Efficient ISO-IEC-42001-Lead-Auditor Latest Exam Answers

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

Topic	Details
Topic 1	• 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 2	• 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	• 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 4	• 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 5	• 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.

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PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48
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 type of machine learning does MindMeld utilize?

- A. Semi-supervised
- B. Unsupervised machine learning
- C. Reinforcement learning

Answer: A

Explanation:

MindMeld learns from both labeled and unlabeled data, which is the defining characteristic of semi- supervised learning. Semi-supervised learning leverages a small amount of labeled data along with a larger set of unlabeled data to improve learning efficiency and accuracy. This contrasts with reinforcement learning, which relies on feedback via rewards and punishments, and unsupervised learning, which uses only unlabeled data.

ISO/IEC 42001:2023 requires organizations to understand and manage the AI lifecycle, including clear identification of the AI methods used to ensure fairness, transparency, and reliability (Clause 4.2, Clause 5.4).

Semi-supervised learning supports these goals by allowing effective use of data while managing privacy risks such as PII removal.

Reference:ISO/IEC 42001:2023, Clause 4.2 - Understanding the AI system and its requirementsISO/IEC

42001:2023, Clause 5.4 - Data management and privacyArtificial Intelligence Management System Lead Auditor Guide, Section 7.3.1

NEW QUESTION # 49

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

Answer: B

Explanation:

The principle being neglected isDue Professional Care.

According toISO 19011:2018 - Clause 4(f), auditors are expected to applydiligence, competence, and judgmentduring audit activities. If an auditor proceeds with an auditwithout the required expertise, especially for a high-risk system like autonomous driving, this violates the principle of due care.

ThePECB Lead Auditor Guide - Domain 3clearly states that in complex technical environments (such as AI or autonomous systems), auditors mustseek assistance from domain specialistswhen they lack direct experience.

Reference: ISO 19011:2018 - Clause 4(f): "Due professional care"

PECB Lead Auditor Guide - Domain 3: "Auditor Competence and Responsibilities"

NEW QUESTION # 50

What is the main goal of the 'Transparency and Explainability' core element in AI?

- A. To make AI operations understandable to users and stakeholders
- B. To reduce the cost of AI development
- C. To improve the speed of AI systems
- D. To ensure AI systems are user-friendly

Answer: A

Explanation:

The principle ofTransparency and Explainabilityis designed to ensure thatusers and stakeholders can understand how AI systems function, how decisions are made, and what data is used.

ISO/IEC 42001:2023 emphasizes that transparency enablestraceability, clarity of design choices,and auditability, while explainability provides insights intohow outputs are generated, especially for high-risk or critical applications.

In practical terms, this principle supports:

* Buildingtrustin AI systems
* Ensuringregulatory compliance
* Facilitatinginformed decision-making

NEW QUESTION # 51

Scenario 6 (continued):

Scenario 6: HappilyAI is a pioneering enterprise dedicated to developing and deploying artificial intelligence Al solutions tailored toenhance customer service experiences across various industries. The company offers innovative products like virtual assistants,predictive analytics tools, and personalized customer interaction platforms. As part of its commitment to operational excellence andinnovation, HappilyAI has implemented a robust Al management system AIMS to oversee its Al operations effectively. Currently.HappilyAI is undergoing a comprehensive audit process of its AIMS to evaluate its compliance with ISO/IEC 42001.

Under the leadership of Jess, the audit team began the audit process with meticulous planning and coordination, setting the groundworkfor the extensive on-site activities of the stage 1 audit. This initial phase was marked by a comprehensive documentation review. Theaudit scope encompassed a critical review of HappilyAI's core departments, including Research and Development (R&D), CustomerService, and Data Security, aiming to assess the conformity of HappilyAI's AIMS to the requirements of ISO/IEC 42001.

Afterward, Jess and the team conducted a formal opening meeting with HappilyAI to introduce the audit team and outline the auditactivities. The meeting set a collaborative tone for the subsequent phases, where the team engaged in information collection, executedaudit tests, identified findings, and prepared draft nonconformity reports while maintaining a strict quality review process. In gathering evidence, the audit team employed a sampling method, which involved dividing thepopulation into homogeneous groups toensure a comprehensive and representative data collection by drawing samples from each segment. Furthermore, the team employedobservation to deepen their understanding of the Al management processes. They verified the availability of essential documentation,including Al-related policies, and evaluated the communication channels established for reporting incidents. Additionally, they scrutinized specific monitoring tools designed to track the performance of data acquisition processes, ensuring thesetools effectively identify and respond to errors or anomalies. However, a notable challenge emerged as the team encountered a lack ofaccess to documented information that describes how tasks about AIMS are executed. In addition to this, the team identified a potentialnonconformity within the Sales Department. They decided not to record this as a nonconformity in the audit report but onlycommunicated it to the HappilyAI's representatives.

During the stage 2 audit, the certification body, in collaboration with HappilyAI, assigned the roles of technical experts within the auditteam. Recognized for their specialized knowledge and expertise in artificial intelligence and its applications, these technical experts aretasked with the thorough assessment of the AIMS framework to ensure its alignment with industry standards and best practices,focusing on areas such as data ethics, algorithmic transparency, and Al system security.

Question:
According to Scenario 6, which sampling method did the audit team use?

- A. Random
- B. Systematic
- C. Stratified

Answer: C

Explanation:
The audit team used aStratified samplingmethod - dividing data or operations into different categories (e.
g., departments or functions) and sampling accordingly.
* ISO 19011:2018 Clause 6.5.5defines stratified sampling as:"Dividing the population into homogeneous subgroups and then taking samples from each subgroup."
* TheISO/IEC 42001 auditing practicesrecommend stratification for complex AI management systems with multiple departments.
Reference:ISO 19011:2018 Clause 6.5.5; ISO/IEC 42001:2023 Clause 9.2.2.

NEW QUESTION # 52
Scenario 4:
BioNovaPharm, a German biopharmaceutical company, has implemented an artificial intelligence management system AIMSbased on ISO/IEC 42001 to optimize various aspects of drug discovery, including analyzing extensive biological data, identifying potentialdrug candidates, and streamlining clinical trial processes. After having the AIMS in place for over a year, the company contracted acertification body and is now undergoing an AIMS audit to obtain certification against ISO/IEC 42001.

Adopting a risk-based approach, the audit team focused on risk throughout their activities. The level of detail outlined in the audit plancorresponded to the scope and complexity of the audit. The team employed a ranking system for detailed audit procedures, prioritizingthose with the highest risk.

Once the stage 1 audit began, the audit team started reviewing the auditee's documented information. To assess whether BioNovaPharmcomplies with the legal and regulatory requirements related to incident communication, the audit team examined evidence provided bythe company's external legal office. The evidence confirmed that BioNovaPharm applies the requirements of the EU Al Act, whichmandates that providers of high-risk Al systems report serious incidents to relevant authorities.

Following the completion of the stage 1 audit, John, an audit team member, documented the stage 1 audit outputs, including theobservations of the audit team that could result in nonconformities during the on-site audit. However, the audit team leader, Emma, whowas overseeing the audit activities, observed that John failed to document significant observations related to the lack

oftransparency inthe Al decision-making processes of BioNovaPharm. Considering that Emma observed John's lack of competence in undertaking some audit activities, a disciplinary note was recorded for John.

Question:

What type of evidence did the audit team obtain to assess BioNovaPharm's compliance with legal and regulatory incident reporting requirements?

- A. Observational
- B. Confirmative
- C. Analytical
- D. Technical

Answer: B

Explanation:

The audit team obtainedConfirmative evidence.

* ISO/IEC 42001:2023 Clause 9.2.2 specifies that during audits, objective evidence such ascertifications, legal opinions, or official documentationthat confirms compliance must be collected.

* Confirmative evidence specifically refers to validated information fromindependent sources(in this case, external legal advice).

* TheLead Auditor Training Manualalso definesConfirmative Evidenceas:"Evidence that provides verification of conformance through reliable independent sources." Reference:ISO/IEC 42001:2023 Clause 9.2.2; Lead Auditor Study Guide Chapter 7 ("Evidence Gathering Techniques").

NEW QUESTION # 53

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