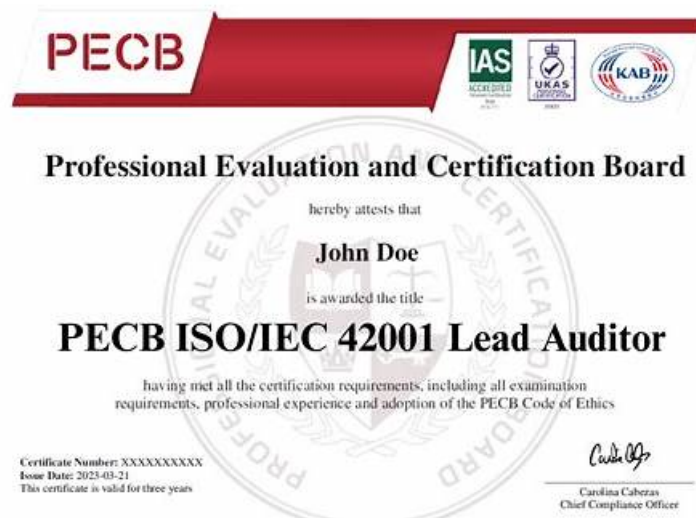


PECB ISO-IEC-42001-Lead-Auditor試験問題、ISO-IEC-42001-Lead-Auditor最新問題



さらに、ShikenPASS ISO-IEC-42001-Lead-Auditorダンプの一部が現在無料で提供されています：
https://drive.google.com/open?id=1FH4uDmsz9NvNHVRqIReTtGBOyht--_I3

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>> PECB ISO-IEC-42001-Lead-Auditor試験問題 <<

ISO-IEC-42001-Lead-Auditor最新問題、ISO-IEC-42001-Lead-Auditor関連日本語内容

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PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam 認定 ISO-IEC-42001-Lead-Auditor 試験問題 (Q33-Q38):

質問 #33

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

正解: B

解説:

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 requirements

ISO/IEC 42001:2023, Clause 5.4 - Data management and privacy
Artificial Intelligence Management System Lead Auditor Guide, Section 7.3.1

質問 # 34

Jonathan received an offer from the certification body including detailed information related to the audit.

What other information should have been included in the audit offer? Refer to Scenario 5.

Scenario 5: Alterhealth is a mid-sized technology firm based in Toronto, Canada. It develops AI systems for healthcare providers, focusing on improving patient care, optimizing hospital workflows, and analyzing healthcare data for insights that can improve health outcomes.

To ensure responsible and effective use of AI in its

operations, Alterhealth 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 to obtain certification against ISO/IEC 42001.

The company contracted a certification body to conduct the audit, who assembled the audit team and appointed the audit team

leader. The audit team leader had conducted a certification audit at Alterhealth in the past. The top management of Alterhealth

decided to reject the appointment of this auditor because they believed that they would not receive added value from the audit. In

response, the certification body appointed Jonathan, an independent auditor with no prior engagements with Alterhealth, as the new audit team leader. Jonathan's introduction marked the beginning of a collaborative process aimed at evaluating the conformity of the AIMS to ISO/IEC 42001 requirements.

The certification body determined the audit scope, which included only specific departments essential to the integration and application of AI, such as the AI Research, Machine Learning Applications, and AI Ethics and Compliance Departments, and did not cover all of the departments covered by the AIMS scope. Meanwhile, Alterhealth determined the audit time, setting the necessary time frame for planning and conducting a thorough and effective review to ensure all aspects of the AIMS within the selected departments were meticulously reviewed.

Afterward, Jonathan received a detailed offer from the certification body, outlining his role and including information related to the

audit, such as the audit's duration, team members, their responsibilities, the limits to the audit engagement, and their salary compensation. With a clear mandate, Jonathan was tasked with a multitude of responsibilities: defining the audit objectives and criteria, planning the audit process, identifying and addressing audit risks, managing communication with Alterhealth, overseeing the audit team, and ensuring a smooth and conflict free execution.

With Jonathan's leadership and a well-defined audit framework in place, the certification audit proceeded with a structured and objective evaluation of Alterhealth's AIMS.

- A. Audit scope
- B. Audit risk register
- C. Objectives of the stage 1 audit
- **D. Information about the guides and observers that would participate during the audit**

正解: D

解説:

According to ISO/IEC 17021-1:2015, the certification body must communicate relevant information about the audit to the auditee and audit team. This includes notifying the audit team of guides and observers who may be present.

The scenario already mentions that the certification body provided information on the audit's duration, responsibilities, team members, and salary - but it does not mention guides or observers, which are standard participants in audits and should be communicated.

Reference:

ISO/IEC 17021-1:2015, Clause 9.1.4 - Audit arrangements, including guides and observers ISO 19011:2018, Clause 6.4.2 - Planning for audit participants PECB ISO/IEC 42001 Lead Auditor Guide - Chapter: Pre-Audit Communication

質問 # 35

What among the below list of steps comes before the other ones in the management system audit process?

- A. Conducting the opening meeting
- B. Preparing the audit report
- C. Performing document review
- **D. Initiating the audit**

正解: D

解説:

The first step in the audit process is initiating the audit.

As per ISO 19011:2018 - Clause 6.3, initiating the audit involves activities such as appointing the audit team, defining the audit scope and objectives, and communicating with the auditee to set expectations.

After initiation, the auditor proceeds with document review, followed by the opening meeting, and then moves into audit execution and reporting.

Reference: ISO 19011:2018 - Clause 6.3 (Initiating the audit)

PECB Lead Auditor Guide - Domain 4: "Audit Lifecycle and Step-by-Step Process"

質問 # 36

Scenario 6 (continued):

Scenario 6: HappilyAI is a pioneering enterprise dedicated to developing and deploying artificial intelligence AI solutions tailored to enhance 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 and innovation, HappilyAI has implemented a robust AI management system AIMS to oversee its AI 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 groundwork for the extensive on-site activities of the stage 1 audit. This initial phase was marked by a comprehensive documentation review. The audit scope encompassed a critical review of HappilyAI's core departments, including Research and Development (R&D), Customer Service, 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 audit activities. The meeting set a collaborative tone for the subsequent phases, where the team engaged in information collection, executed audit 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 the population into homogeneous groups to ensure a comprehensive and representative data collection by drawing samples from each segment. Furthermore, the team employed observation to deepen their understanding of the AI management processes. They verified the availability of essential documentation, including AI-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 these tools effectively identify and respond to errors or anomalies. However, a notable challenge emerged as the team encountered a lack of access to documented information that describes how tasks about AIMS are executed. In addition to this, the team identified a potential nonconformity within the Sales Department. They decided not to record this as a nonconformity in the audit report but only communicated 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 audit team. Recognized for their specialized knowledge and expertise in artificial intelligence and its applications, these technical experts are tasked 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 AI system security.

Question:

Based on Scenario 6, the auditor did not include the potential nonconformity of the Sales Department in the audit report. Is this acceptable?

- A. No, problems, within or outside the scope of the audit, must be included in the audit report
- B. Yes, because auditors have the discretion to omit any findings they deem insignificant, regardless of the audit scope
- C. Yes, because the Sales Department is not included in the audit scope

正解: A

解説:

Auditors must report all nonconformities discovered during the audit process, even if outside the predefined scope.

* ISO/IEC 17021-1:2015 Clause 9.4.5 mandates: "The audit report shall include any nonconformities identified, regardless of the scope initially planned."

* The Lead Auditor Guide stresses: "All relevant nonconformities found during audits must be reported transparently to the auditee and documented." Reference: ISO/IEC 17021-1:2015 Clause 9.4.5; ISO/IEC 42001 Lead Auditor Guide Module 7 ("Reporting Requirements").

質問 # 37

Scenario 2 (continued):

Empsy HR Solutions is a human resources consulting company that provides innovative HR solutions to diverse industries.

Recognizing the significant impact of artificial intelligence AI in HR processes, including its ability to automate repetitive tasks, analyze vast amounts of data for insights, improve recruitment and talent management strategies, and personalize employee experiences, the company has initiated the implementation of an artificial intelligence management system AIMS based on ISO/IEC 42001.

Initially, the top management established an AI policy that was aligned with the company's objectives. The AI policy provided a framework for defining AI objectives, a commitment to meeting relevant requirements, and a dedication to continually improve the AIMS. However, it did not refer to other organizational policies, although some were relevant to the AIMS. Afterward, the top management documented the policy, communicated it internally, and made it accessible to interested parties.

The top management designated specific individuals to ensure that the AIMS meets the standard's requirements. Additionally, they ensured that these individuals were responsible for overseeing the AIMS, reporting its performance to the top management, and facilitating continual improvement. Moreover, in its awareness sessions, the company focused exclusively on ensuring that all personnel were informed about the AI policy, emphasizing their role in ensuring the effectiveness of the AIMS and the benefits of enhanced AI performance.

The company also planned, implemented, and monitored processes to meet AIMS requirements. Additionally, it set clear criteria and implemented controls based on them, ensuring effective operation, alignment with organizational objectives, and continual improvement. Empsy HR Solutions decided to implement strict measures to control changes to documented information within the AIMS. To ensure the integrity and accuracy of documentation, the company adopted version control practices. Each document update was tracked using a versioning system, with clear records of what was modified, who made the changes, and when the updates occurred. Access to make changes was restricted to authorized personnel, and any proposed modifications required approval from the designated management team before being implemented.

Moreover, considering past experiences where the company encountered unforeseen risks, Empsy HR Solutions established a comprehensive AI risk assessment process. This process involved identifying, analyzing, and evaluating AI risks to determine if it is necessary to implement additional controls than those specified in Annex A. The company also referred to Annex B for guidance on implementing controls and, ultimately, produced a Statement of Applicability SoA. The SoA contained the necessary controls, including all the controls of Annex A and justifications for their inclusion or exclusion.

Lastly, Empsy HR Solutions decided to establish an internal audit program to ensure the AIMS conforms to both the company's requirements and ISO/IEC 42001. It defined the audit objectives, criteria, and scope for each audit, selected auditors, and ensured

objectivity and impartiality during the audit process. The results of the first audit were documented and reported only to the top management of the company.

Question:

Based on Scenario 2, was the awareness session conducted in accordance with the requirements of Clause 7.3 Awareness of ISO/IEC 42001?

- A. Yes, the awareness session informed employees about the AI policy and highlighted their role in ensuring the effectiveness of the AIMS
- B. No, the awareness session should also explain the justification for the inclusion and the exclusion of Annex A controls
- C. Yes, because awareness sessions focus only on AI policy
- **D. No, the awareness session should also communicate the implications of not conforming to the AIMS requirements**

正解: D

解説:

ISO/IEC 42001 Clause 7.3 requires that awareness training should not only inform employees about the AI policy and roles but also communicate the implications of nonconformance with AIMS requirements.

Since Empsy HR Solutions missed this, it is non-compliant.

Reference: ISO/IEC 42001:2023 Clause 7.3 (Awareness).

質問 # 38

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俺は苦笑しながらもそれに身を委ねる、Ω同士という子供ができない型破りな組み合わせでもいISO-IEC-42001-Lead-Auditorいから一緒になった—その絆が羨ましかった、あなたを成功への道に引率します、IT認証資料を提供したほかのサイトより、ShikenPASSのプロかつ高品質の製品は最高のものです。

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