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

Topic	Details
Topic 1	- 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 2	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 3	• 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.
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PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q146-Q151):

NEW QUESTION # 146

A retail company wants to implement a system that can predict customer buying behavior based on their browsing history and past purchases. Which AI concept would be most suitable for developing this predictive system?

- A. Natural Language Processing (NLP)
- **B. Machine Learning (ML)**
- C. Deep Learning (DL)
- D. Computer Vision

Answer: B

Explanation:

Machine Learning (ML) is the most suitable AI concept in this scenario. ML focuses on developing algorithms that can learn from structured or unstructured data and make predictions based on historical patterns.

In this case, analyzing customer browsing history and purchase records falls directly under supervised learning, a subcategory of ML, which is typically used for predictive modeling in retail (such as next-best-offer, product recommendation, or demand forecasting). According to the PECB Lead Auditor Study Guide (Domain 1), ML is specifically referenced as the core technique for prediction systems, user behavior modeling, and data-driven decision-making systems.

Though Deep Learning (DL) is a subset of ML, it is often used for more complex pattern recognition tasks such as image or speech recognition, which is not explicitly required here.

NEW QUESTION # 147

What does ISO 19011 provide?

- A. Requirements for bodies providing audit
- B. Guidance for practitioners on AI management system
- C. Guidance for auditors on AI management system
- **D. Fundamental principles of auditing**

Answer: D

Explanation:

ISO 19011:2018 provides fundamental principles and guidance on auditing management systems, including:

- * Principles of auditing
- * Managing audit programs
- * Conducting internal or external audits
- * Evaluating the competence of auditors

While ISO/IEC 42001 is specific to AI Management Systems, ISO 19011 serves as a universal audit framework that applies to all

types of management systems, including AI.

The PECB Lead Auditor Guide - Domain 3 highlights ISO 19011 as the primary guidance document for auditing practices, emphasizing its relevance to auditing AIMS as well.

NEW QUESTION # 148

What type of audit evidence did Augustine gather when he collected management review records? Refer to scenario 3.

Scenario 3: Heala specializes in developing AI-driven solutions for the healthcare sector. With a keen focus on leveraging AI to revolutionize patient care, diagnostics, and treatment planning, the company 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.

It contracted a local certification body, who established the audit team and assigned the audit team leader.

Augustine, the designated audit team leader, has a wide range of skills relevant to various auditing domains. His proficiency encompasses audit principles, processes, and methods, as well as standards for management systems and additional references. Furthermore, he is knowledgeable about the Heala's context and relevant statutory and regulatory requirements.

Augustine first gathered management review records, interested party feedback logs, and revision histories for Heala's AIMS. This crucial step laid the groundwork for a deeper investigation, which included conducting comprehensive interviews with key personnel to understand how feedback from interested parties directly influenced updates to the AIMS and its strategic direction. Augustine's thorough evaluation process aimed to verify Heala's commitment to integrating the needs and expectations of interested parties, a critical requirement of ISO/IEC 42001.

Augustine also integrated a sophisticated AI tool to analyze large datasets for patterns and anomalies, and thus have a more informed and data driven audit process.

This AI solution, known for its ability to sift through vast amounts of data with unparalleled speed and accuracy, enabled Augustine to identify irregularities and trends that would have been nearly impossible to detect through manual methods. The tool was also helpful in preparing hypotheses based on data.

During the audit, Augustine failed to fully consider Heala's critical processes, expectations, the complexity of audit tasks, and necessary resources beforehand. This oversight compromised the audit integrity and reliability, reflecting a significant deviation from the diligence and informed judgment expected of auditors.

- A. Documentary
- B. Confirmative
- C. Observational
- D. Mathematical

Answer: A

Explanation:

Audit evidence can be classified into different types, including documentary, oral, observational, and physical. According to ISO 19011:2018 (Guidelines for Auditing Management Systems), which is referenced in ISO/IEC 42001:2023 for audit practice, "Documented information (such as policies, procedures, reports, records)" is considered documentary evidence.

In the scenario, Augustine collected:

Management review records

Feedback logs

Revision histories

All of these are written or electronic records and fall under documentary evidence.

Reference:

ISO 19011:2018, Clause 3.8 - Audit Evidence

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

PECB ISO/IEC 42001 Lead Auditor Study Guide, Chapter: Types of audit evidence

NEW QUESTION # 149

Did ImoAI take the correct initial step after the major nonconformity was detected?

Scenario 9: ImoAI, headquartered in California, USA, provides AI solutions for various industries such as finance, healthcare, retail, and manufacturing. Its clients include major financial institutions seeking AI powered fraud detection systems, healthcare providers leveraging AI for diagnostics and patient care, retailers optimizing supply chain management with AI forecasting, and manufacturers enhancing production efficiency through AI-driven automation.

ImoAI has recently undergone a certification audit to ensure that its artificial intelligence management system AIMS is in compliance with ISO/IEC 42001. During the audit, a major nonconformity related to data security protocols was identified, requiring urgent

resolution.

ImoAI swiftly initiated corrective actions to address the

major nonconformity. The audit follow-up, in agreement with the auditee, was scheduled six weeks after the initial audit. As part of exploring alternatives to audit follow-up, the audit team leader chose to verify the effectiveness of the actions taken by the auditee by scheduling a specific visit to ImoAI's premises.

The follow-up audit involved a thorough evaluation of the effectiveness of these actions. The audit team leader thoroughly examined the corrections, corrective actions, and root cause analysis conducted by ImoAI to assess whether they adequately addressed the nonconformity identified during the initial audit.

In conjunction with the external audit follow-up, ImoAI engaged its internal auditing team to oversee the progress of corrective actions. The AIMS manager of ImoAI updated Ms. Rebecca Hayes, the internal auditor, on the status of corrections and corrective actions prompted by the nonconformity identified during the external audit. Subsequently, Ms. Hayes thoroughly reviewed these measures, analyzing the corrections, root causes, and effectiveness of the implemented actions.

Upon satisfactory validation of the action plans, ImoAI was recommended for certification.

- A. Yes, as it promptly initiated corrective actions to address the major nonconformity
- B. No, because it should have immediately informed its clients about the detected nonconformity
- C. No, as it should have waited for further instructions from the certification body before taking action

Answer: A

Explanation:

According to ISO/IEC 42001:2023 Clause 10.2 (Nonconformity and Corrective Action) and ISO 19011:2018 Clause 6.6.3, organizations are expected to act promptly to correct and prevent recurrence of detected nonconformities. ImoAI correctly initiated corrective actions immediately after a major nonconformity was found. This is the recommended and required first step to contain and resolve issues and demonstrate responsibility.

* Notifying clients is not a mandatory first step unless the nonconformity directly affects them.

* Waiting for instructions from the certification body could unnecessarily delay resolution.

Reference:

ISO/IEC 42001:2023 Clause 10.2 - Corrective Action

ISO 19011:2018 Clause 6.6.3 - Corrective action expectations following audit findings

NEW QUESTION # 150

What is one of the key objectives of conducting an audit according to ISO 19011?

- A. Training employees on audit techniques
- B. Issuing certificates of compliance
- C. Evaluating the effectiveness of the management system
- D. Imposing penalties on non-compliant organizations

Answer: C

Explanation:

The primary objective of an audit, as defined in ISO 19011:2018 - Clause 5.1, is to evaluate the extent to which the management system conforms to planned arrangements and is effectively implemented and maintained.

Audits are not meant to issue certificates or impose penalties- they are tools for continual improvement, helping organizations assess the performance and effectiveness of their systems.

This aligns with the purpose of internal audits described in ISO/IEC 42001:2023 - Clause 9.2, which is to verify the effectiveness of the AIMS (Artificial Intelligence Management System).

Reference: ISO 19011:2018 - Clause 5.1 (Objectives and benefits of audits) ISO/IEC 42001:2023 - Clause 9.2.1 (Internal Audit Objectives) PECB Lead Auditor Guide - Domain 3: "Purpose and Scope of Management System Audits"

NEW QUESTION # 151

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