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

Topic	Details
Topic 1	<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.
Topic 2	<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 ISOIEC 42001. It explains how organizations should structure their AI-related activities and processes to meet compliance standards effectively.
Topic 3	<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.

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PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q166-Q171):

NEW QUESTION # 166

Based on the last paragraph of scenario 3, which audit principle did Augustine violate? 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. Due professional care**
- B. Confidentiality
- C. Integrity
- D. Fair presentation

Answer: A

Explanation:

In the last paragraph, Augustine "failed to fully consider Heala's critical processes, expectations, the complexity of audit tasks, and necessary resources beforehand." This indicates a failure in planning and judgment.

According to ISO 19011:2018 (and referenced in ISO/IEC 42001:2023), "Due professional care" requires auditors to exercise sound judgment, diligence, and competence in conducting audits.

His failure compromised the audit's integrity and reliability, which directly violates the principle of due professional care.

Reference:

ISO 19011:2018, Clause 4(f) - Audit Principle: Due professional care

ISO/IEC 42001:2023, Clause 9.2 - Competence and planning in audits

PECB ISO/IEC 42001 Lead Auditor Guide, Chapter 3 - Audit principles

NEW QUESTION # 167

The certification body did not include all departments covered by the AIMS scope in the audit scope. Is this acceptable? 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. No, the audit scope must cover all of the auditee's departments regardless of whether they are included in the AIMS scope
- B. Yes, if it is a Stage 1 audit only
- **C. No, the audit scope must include all of the auditee's departments part of the AIMS scope**
- D. Yes, the audit scope does not necessarily include all of the auditee's departments covered by the AIMS scope

Answer: C

Explanation:

According to ISO/IEC 17021-1:2015 and ISO/IEC 42001:2023, the audit scope for a certification audit must fully align with the scope of the management system (in this case, the AIMS). If certain departments are included in the AIMS scope, they must be part of the certification audit scope.

In Scenario 5, it is stated: "The certification body determined the audit scope... and did not cover all of the departments covered by the AIMS scope." This is not acceptable, as omitting departments within the declared AIMS scope can result in an incomplete and non-representative audit, violating ISO 17021-1 guidance.

Reference:

ISO/IEC 17021-1:2015, Clause 9.1.2 - Audit scope must be consistent with certification scope ISO/IEC 42001:2023, Clause 4.3 - Determining the scope of the AIMS PECB ISO/IEC 42001 Lead Auditor Study Guide - Chapter: Audit Scope and Planning

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NEW QUESTION # 168

In which situations does an auditor have the right to decline the audit mandate?

- A. When clear problems exist related to the experience and language proficiency of the auditee's employees
- B. When the auditee is unwilling to provide documented information in advance
- C. When technical experts have not been assigned to participate in the audit
- **D. When the allocated time for conducting the audit does not allow for a thorough assessment of the management system**

Answer: D

Explanation:

Auditors have the right and responsibility to ensure that audits are conducted effectively. According to ISO 19011:2018 and ISO/IEC 17021-1:2015, if the audit time allocated is insufficient to conduct a comprehensive and thorough audit, the auditor may refuse or request modification of the assignment.

This helps maintain audit integrity, quality, and professional due care.

Reference:

ISO/IEC 17021-1:2015, Clause 9.1.4 - Audit duration

ISO 19011:2018, Clause 5.3.2 - Audit planning responsibilities

PECB ISO/IEC 42001 Lead Auditor Guide - Chapter: Auditor Rights and Responsibilities

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NEW QUESTION # 169

Question:

Which of the following statements regarding the organization's requirement to address risks and opportunities based on ISO/IEC 42001 is correct?

- A. The organization must address risks and opportunities but is not required to integrate these actions into its AIMS
- B. The organization must integrate the actions into its AIMS but is not required to evaluate the effectiveness of those actions
- **C. The organization is required to plan how to incorporate the actions in its AIMS and assess their effectiveness**
- D. The organization is only required to identify risks without taking specific action

Answer: C

Explanation:

ISO/IEC 42001 Clause 6.1.2 requires organizations to plan actions to address risks and opportunities, integrate these actions into the management system, and evaluate their effectiveness as part of continual improvement.

Reference: ISO/IEC 42001:2023 Clause 6.1.2 (Planning and Risk Integration into AIMS).

NEW QUESTION # 170

Scenario 1:

To ensure the integrity of the AI system, Future Horizon Academy has implemented measures to ensure that training data remain isolated from data that could lead to harmful or undesirable outcomes. The institution adds significant data elements as metadata, transforms the data into a format usable by the AI system, and uses data from one or more trusted sources.

Committed to standardization and continual improvement, Future Horizon Academy decided to implement an artificial intelligence management system (AIMS) based on ISO/IEC 42001 that would help the institution increase operational efficiency, resulting in improved processes.

After having the AIMS in place for a year, the institution decided to apply for a certification audit to get certified against ISO/IEC 42001. Prior to the certification audit, the institution conducted an internal audit and management review to ensure that the AIMS aligns with the institution's own requirements and that the system is being maintained effectively.

Question:

Which of the following AI principles has Future Horizon Academy applied?

- A. Transparency
- B. Human control
- **C. Reliability and safety**
- D. Accountability

Answer: C

Explanation:

Future Horizon Academy isolated its training data, ensured use of trusted sources, added metadata, and transformed data formats, directly supporting the Reliability and Safety principle. ISO/IEC 42001:2023 emphasizes in Clause 5.2 that an organization must ensure the reliability and safety of AI systems, especially regarding data integrity and handling risks arising from poor data quality.

Reference: ISO/IEC 42001:2023 Clause 5.2 (AI Principles Application).

NEW QUESTION # 171

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