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

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none"> Conducting an ISO IEC 42001 audit: This section of the exam measures the skills of a Lead Auditor and focuses on executing the audit according to ISO IEC 42001 guidelines. It includes collecting evidence, interviewing relevant staff, and evaluating compliance with the AI management system standards.
Topic 4	<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.

PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q148-Q153):

NEW QUESTION # 148

During an audit, the auditor uncovers sensitive data regarding the AI system's algorithms and their decision-making processes. Which principle must the auditor adhere to when handling this information?

- A. Integrity
- B. Fair Presentation
- C. Evidence-Based Approach
- D. Confidentiality

Answer: D

Explanation:

The correct principle is Confidentiality.

ISO 19011:2018 - Clause 4(e) states that auditors must respect the confidentiality of information acquired during the audit and use it only for audit purposes. This includes sensitive or proprietary data, such as AI algorithms, models, and proprietary decision logic. The PECB Lead Auditor Guide - Domain 3 reinforces that any internal or sensitive company information discovered must be safeguarded and never disclosed without authorization.

Reference: ISO 19011:2018 - Clause 4(e): "Confidentiality - Security of information" PECB Lead Auditor Guide - Domain 3: "Auditor Conduct and Ethics - Confidentiality Requirements"

NEW QUESTION # 149

In which step are the audit findings, including nonconformities, documented and reviewed?

- A. Conducting the audit
- B. Closing meeting

- C. Audit reporting
- D. Initiating the audit

Answer: C

Explanation:

The Audit Reporting step involves the formal documentation of audit findings, including:

- * Nonconformities
- * Observations
- * Opportunities for improvement
- * Conformity conclusions

According to ISO 19011:2018 - Clause 6.6.1, and reflected in ISO/IEC 42001:2023 - Clause 9.2.2, the audit report must be reviewed and finalized after the audit activities are complete and include verified evidence of all findings.

The PECB Lead Auditor Guide - Domain 6 emphasizes that the audit report is the final output of the audit process and includes all findings that were identified and reviewed during the audit lifecycle.

Reference: ISO 19011:2018 - Clause 6.6.1 (Preparing and distributing the audit report) ISO/IEC 42001:2023 - Clause 9.2.2 (Internal audit) PECB Lead Auditor Guide - Domain 6: "Audit Reporting and Closing Activities"

NEW QUESTION # 150

What should an auditor do to evaluate the auditee's conformity to control A.9 Use of AI systems?

- A. Interview the CEO regarding ethical decisions made in previous AI projects
- B. Review diagrams or records that show the data flow and history to validate traceability
- C. Verify processes and objectives for the responsible use of AI systems, assess implementation mechanisms, and confirm compliance with intended use
- D. Analyze contracts with partners, suppliers, and third parties to verify that responsibilities related to AI systems are stated

Answer: C

Explanation:

Control A.9 in ISO/IEC 42001:2023 addresses the use of AI systems. It requires organizations to ensure AI systems are used in accordance with defined objectives and aligned with ethical principles, intended use, and applicable controls. Auditors must evaluate whether processes exist for the responsible use of AI and confirm that implementation aligns with those objectives.

Option A is related more to third-party agreements (Control A.6), and Option C refers to traceability (Control A.7 or A.13).

Reference:

ISO/IEC 42001:2023, Annex A, Control A.9 - Use of AI Systems

PECB ISO/IEC 42001 Lead Auditor Study Guide - Section: Verifying Responsible Use of AI

NEW QUESTION # 151

Which international standard does the top management of NeuraGen apply to govern the effective use of AI?

(Refer to Scenario 1)

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.

- A. ISO/IEC 38507
- B. ISO/IEC 22989
- C. ISO/IEC 23503

Answer: A

Explanation:

The scenario states: "Applying an international standard that specifically provides guidance for the highest level of company leadership on governing the effective use of AI..." This aligns directly with ISO/IEC 38507.

ISO/IEC 38507:2022 - Governance implications of the use of artificial intelligence by organizations - provides guidance to the governing body (i.e., top management) of organizations on how to ensure the proper oversight, accountability, and ethical use of AI. It complements ISO/IEC 42001 by focusing specifically on leadership roles and responsibilities in AI governance.

Option B (ISO/IEC 22989) refers to AI terminology and concepts.

Option C (ISO/IEC 23503) is not an officially published ISO standard relating to AI governance at this time.

Reference:

ISO/IEC 38507:2022 - Governance of AI, Clause 4

ISO/IEC 42001:2023, Clause 5.3 - Emphasis on leadership and ethical oversight
PECB AI Lead Auditor Guide, Section 2.2 - Integration of ISO/IEC 38507 with ISO/IEC 42001

NEW QUESTION # 152

Scenario 4 (continued):

BioNovaPharm, a German biopharmaceutical company, has implemented an artificial intelligence management system AIMS based on ISO/IEC 42001 to optimize various aspects of drug discovery, including analyzing extensive biological data, identifying potential drug candidates, and streamlining clinical trial processes. After having the AIMS in place for over a year, the company contracted a certification 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 plan corresponded to the scope and complexity of the audit. The team employed a ranking system for detailed audit procedures, prioritizing those with the highest risk.

Once the stage 1 audit began, the audit team started reviewing the auditee's documented information. To assess whether BioNovaPharm complies with the legal and regulatory requirements related to incident communication, the audit team examined evidence provided by the company's external legal office. The evidence confirmed that BioNovaPharm applies the requirements of the EU AI Act, which mandates that providers of high-risk AI 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 the observations of the audit team that could result in nonconformities during the on-site audit. However, the audit team leader, Emma, who was overseeing the audit activities, observed that John failed to document significant observations related to the lack of transparency in the AI 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:

Which of the following AI applications for auditing did the audit team employ?

- A. Augmented audit interviews
- B. Automated data validation
- C. Automated planning
- D. Augmented analysis

Answer: B

Explanation:

The audit team used Automated Data Validation by using AI to gather and validate external digital data (e.g., drug development information).

* ISO/IEC 42001 Clause 9.2.2 allows the use of automated methods to collect and validate information, provided that the reliability

