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

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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 2	<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 3	<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 4	<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 ISO • IEC 42001. It explains how organizations should structure their AI-related activities and processes to meet compliance standards effectively.
Topic 5	<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 (Q34-Q39):

NEW QUESTION # 34

What is the difference between reactive machines and limited-memory AI?

- A. Reactive machines have conscious understanding of their existence and a sense of self, whereas limited memory AI does not
- B. Reactive machines can improve their functionality over time by learning from past data, while limited memory AI operates solely on present data
- C. Reactive machines operate solely on present data, while limited memory AI can temporarily store and learn from past data to improve over time

Answer: C

Explanation:

Reactive machines: These are the simplest form of AI systems. They operate only on current inputs and do not store past data (e.g., IBM's Deep Blue chess computer).

Limited-memory AI: These systems can use past data to make better decisions and predictions - commonly seen in machine learning models like those used in autonomous vehicles.

Therefore, Option C correctly highlights that reactive machines lack memory and operate only on real-time inputs, whereas limited-memory AI can utilize recent past information for learning.

Reference:

ISO/IEC 22989:2022, Clause 3.7 - Types of AI systems

ISO/IEC TR 24028:2020 - Overview of Trustworthiness in AI, includes capability taxonomy PECB AI Lead Auditor Study Guide, Chapter 2.2 - AI System Classifications

NEW QUESTION # 35

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:

According to Scenario 2, were the risks addressed in accordance with the ISO/IEC 42001 requirements?

- A. No, the company must also establish a risk treatment process
- B. No, the risks should be evaluated and treated and then analyzed
- C. Yes, the risks were identified, analyzed, and evaluated
- D. Yes, risks only need to be identified for certification

Answer: A

Explanation:

ISO/IEC 42001 Clause 6.1.2 requires that risks must not only be identified, analyzed, and evaluated but also treated appropriately. In Scenario 2, Empsy HR Solutions identified and evaluated risks but did not establish a risk treatment process, violating ISO/IEC 42001 requirements.

Reference: ISO/IEC 42001:2023 Clause 6.1.2 (Actions to Address Risks and Opportunities).

NEW QUESTION # 36

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, the audit scope does not necessarily include all of the auditee's departments covered by the AIMS scope
- **C. No, the audit scope must include all of the auditee's departments part of the AIMS scope**
- D. Yes, if it is a Stage 1 audit only

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 # 37

Question:

Which statement most accurately characterizes semantic computing?

- A. It focuses on integrating diverse computational techniques capable of handling imprecision, uncertainty, and partial truth when addressing intricate problems
- B. It involves acquiring and processing knowledge through reasoning, learning, perception, and other cognitive processes
- C. It emphasizes purely statistical data analysis
- **D. It aims to close the disparity between how computers process information and how humans interpret it**

Answer: D

Explanation:

Semantic computing focuses on bridging the gap between computer data processing and human understanding by embedding meaning (semantics) into data. ISO/IEC 42001 and related AI documents (such as ISO/IEC 22989) describe semantic computing as critical in enhancing AI system outputs' interpretability and relevance to human expectations.

Reference: ISO/IEC 22989:2022 Clause 6.7 (Semantic Computing Concepts).

NEW QUESTION # 38

A social media platform wants to automatically detect and remove inappropriate content from images and videos uploaded by users. Which AI concept is most appropriate for this task?

- A. Deep Learning (DL)
- B. Machine Learning (ML)

- C. Computer Vision
- D. Natural Language Processing (NLP)

Answer: C

Explanation:

The most appropriate AI concept for analyzing images and videos is Computer Vision. Computer Vision is a subfield of artificial intelligence that enables systems to interpret and process visual data, such as photos and video frames, which is exactly what is required in this scenario.

According to the PECB Lead Auditor Guide, Computer Vision is explicitly associated with tasks such as object recognition, content moderation, facial recognition, and image classification - all of which are relevant in detecting inappropriate content on platforms like social media.

While Deep Learning is often used within Computer Vision (e.g., convolutional neural networks), the correct high-level concept being asked here is Computer Vision, which encompasses the overall domain applicable to this scenario.

* NLP is used for analyzing text and language, not visual content.

* ML is a broader category under which Computer Vision models are trained, but is too general for this specific task.

Reference: PECB Lead Auditor Guide - Domain 1, Table: "AI Technologies and Use Cases" ISO/IEC 42001:2023 - Clause 8.2.3, which supports aligning AI capabilities (e.g., vision, language, planning) with operational requirements

NEW QUESTION # 39

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