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

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Managing an ISO</li> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Conducting an ISO</li> <li>IEC 42001 audit: This section of the exam measures the skills of a Lead Auditor and focuses on executing the audit according to ISO</li> <li>IEC 42001 guidelines. It includes collecting evidence, interviewing relevant staff, and evaluating compliance with the AI management system standards.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>Preparing an ISO</li> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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</li> <li>IEC 42001. It explains how organizations should structure their AI-related activities and processes to meet compliance standards effectively.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

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### PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q60-Q65):

#### NEW QUESTION # 60

Question:

Which of the following competencies must at least one of the audit team members possess?

- A. Knowledge of the risk-based approach to auditing
- B. Knowledge of the auditee's language
- C. Teamwork and communication skills

Answer: A

Explanation:

At least one member of the audit team must possess knowledge of the risk-based approach to auditing, particularly because ISO/IEC 42001 auditing requires risk-centric evaluation of AI processes.

\* ISO/IEC 17021-1:2015 Clause 9.2.1 emphasizes the importance of a risk-based audit approach.

\* The Lead Auditor Course for ISO/IEC 42001 states: "Competency in risk-based thinking is critical for identifying and focusing on AI system risks that could affect the achievement of audit objectives." Reference: ISO/IEC 17021-1:2015 Clause 9.2.1; ISO/IEC 42001 Lead Auditor Study Guide Module 4 (Risk- Based Auditing).

#### NEW QUESTION # 61

Scenario 3 (continued):

ArBank is a financial institution located in Brussels, Belgium, which offers a diverse range of banking and investment services to its clients. To ensure the continual improvement of its operations, ArBank has implemented a quality management system QMS based on ISO 9001 and an artificial intelligence management system AIMS based on the requirements of ISO/IEC 42001.

Audrey, an experienced auditor, led an internal audit focused on the AIMS within ArBank. She assessed the chatbots integrated into the bank's website and mobile app, analyzing communications using big data technology to identify potential noncompliance, fraud, or unethical conduct. Instead of relying solely on the information provided by the chatbots, Audrey sought out evidence that would either confirm or challenge the validity of the data, ensuring her conclusions were based on reliable and accurate information. Her review of selected chatbot interactions confirmed they met their intended purpose.

For the specific context of ArBank's operations, Audrey utilized an AI system to assess the efficiency of the bank's digital infrastructure, focusing on tasks critical to the Finance Department. This AI system was able to analyze the functionality of chatbots integrated into ArBank's website and mobile app to determine if it adheres to ISO/IEC 42001 requirements and internal policies governing customer service in the banking sector.

In addition, Audrey conducted a deeper assessment of the bank's AIMS. Her evaluation included observing different stages of the AIMS life cycle, from development to deployment, to ensure that roles and responsibilities were clearly defined and aligned with ArBank's operational goals. She also evaluated the tools used to monitor and measure the performance of the AIMS.

Audrey continued the audit process by auditing ArBank's outsourced operations. Upon checking the contractual agreements between the two parties, Audrey decided that there was no need to gather audit evidence regarding the contractual agreement. She reviewed the company's processes for monitoring the quality of outsourced operations, determined whether appropriate governance processes are in place with regard to the engagement of outsourced persons or organizations, and reviewed and evaluated the company's plans in case of expected or unexpected termination of the outsourcing agreement.

Based on the scenario above, answer the following question:

Question:

Based on Scenario 3, did Audrey perform a technical assessment during the audit?

- A. Yes, she conducted observations of the AIMS life cycle and evaluated the tools used to monitor its performance
- B. No, only the certification body should perform technical assessments
- C. No, she only reviewed contractual agreements with outsourced service providers
- D. Yes, she performed a general assessment of ArBank's customer service performance

**Answer: A**

Explanation:

Audrey conducted a technical assessment because she observed the AIMS lifecycle (development, deployment) and evaluated monitoring tools, as required:

\* ISO/IEC 42001 Clause 9.2.2 ("Conducting Audits") mandates that auditors must assess the full lifecycle and technical effectiveness of AI systems.

\* The Lead Auditor Manual notes: "Technical assessments during AIMS audits must include evaluating controls for AI system monitoring, performance, and lifecycle stages." Reference: ISO/IEC 42001:2023 Clause 9.2.2; Lead Auditor Study Guide, Section 5 ("Technical Review during Audits").

### NEW QUESTION # 62

A tech company has decided to apply ISO/IEC 42001 specifically to integrate the AIMS with existing management systems, such as the Information Security Management System and the Business Continuity Management System. Which part of ISO/IEC 42001 should the company use as guidance on aligning the AIMS with these systems to ensure cohesive objectives, streamlined processes, and unified documentation?

- A. Annex B
- B. Annex C
- C. Annex D

**Answer: A**

Explanation:

Annex B of ISO/IEC 42001:2023 provides detailed guidance on the integration of AIMS with other management systems. It supports harmonization with existing systems, such as:

ISO/IEC 27001 (Information Security Management System)

ISO 22301 (Business Continuity Management System)

ISO 9001 (Quality Management System)

Annex B promotes the use of a high-level structure (HLS), aligned terminology, and a risk-based approach to enable integrated planning, unified documentation, and cohesive objectives across systems.

Option B (Annex C) relates to additional implementation guidance for AI-specific controls.

Option C (Annex D) does not exist in ISO/IEC 42001.

Reference:

ISO/IEC 42001:2023, Annex B - Integration with other management system standards ISO/IEC Directives Part 1 - Harmonized Structure (Annex L) PECB Lead Auditor Study Guide, Chapter 3 - Integration of AIMS with existing management systems

### NEW QUESTION # 63

Samuel reviewed and approved the audit plan. Is this acceptable? Refer to Scenario 6.

Scenario 6: AfrinovAI, based in Nairobi, Kenya, develops AI tools to improve agriculture in Africa. The company uses AI to address challenges faced by African farmers, offering tools for analyzing satellite images to monitor crop health, predicting pest and disease outbreaks, and automating irrigation to use water more efficiently.

AfrinovAI has implemented an artificial intelligence management system AIMS based on ISO/IEC 42001, reflecting its commitment to ethical and effective management practices in its AI solutions.

AfrinovAI is undergoing a certification audit to obtain certification against ISO/IEC 42001. Samuel, an expert in AI technologies and management systems, is heading the audit team. Before initiating the audit process, Samuel reviewed and approved the audit plan, which served as a basis for the agreement between the certification body and the auditee.

During the stage 1 audit, the audit team focused on a detailed evaluation of AfrinovAI's documented information, critically assessing both their format and content.

Samuel held a meeting with his team to prepare for the stage 2 audit. During this meeting, responsibilities were allocated among team members, assigning specific processes, functions, sites, areas, or activities based on each auditor's expertise and the audit requirements. He also assigned auditing roles to technical experts to leverage their specialized knowledge in specific areas.

In the stage 2 audit, Samuel and his team held an opening meeting during which Samuel explained how the audit activities will be undertaken. AfrinovAI's also participated in the meeting. Afterward, the audit team conducted on-site activities to closely inspect the physical locations of the audited processes. The interviewed individuals from the auditee's personnel regarding the AIMS and observed some of the operations of the auditee. They also used sampling and technical verification to assess the implementation of AI-related controls, verify compliance with established procedures, and identify any gaps in adherence to the AIMS requirements. They skipped the review of documented information related to the AIMS since some documents had already been reviewed during the stage 1 audit. This comprehensive approach ensured a thorough evaluation of AfrinovAI's AIMS against the ISO/IEC 42001.

- **A. Yes, the audit team leader is responsible for reviewing and approving the audit plan**
- B. No, the certification body and the auditee should review and confirm the audit plan
- C. No, the auditee should prepare and approve the audit plan
- D. Yes, but only if the auditee approves it as well

**Answer: A**

Explanation:

According to ISO 19011:2018 (Clause 6.4.3), the audit team leader is responsible for preparing, reviewing, and approving the audit plan. The plan must then be communicated to the auditee, and its execution should align with the objectives, scope, and criteria of the audit.

In Scenario 6, Samuel fulfilled this responsibility correctly by reviewing and approving the plan before the audit began.

Reference:

ISO 19011:2018, Clause 6.4.3 - Preparing the Audit Plan

ISO/IEC 42001:2023, Clause 9.2 - Responsibilities in Audit Planning

PECB ISO/IEC 42001 Lead Auditor Study Guide - Audit Planning and Approval Process

#### **NEW QUESTION # 64**

Which among the following core concepts of Artificial Intelligence uses artificial neural networks inspired by the human brain to process complex data like images, text, and speech?

- **A. Deep Learning**
- B. Machine Learning
- C. Computer Vision
- D. Natural Language Processing

**Answer: A**

Explanation:

Deep Learning (DL) is a subfield of Machine Learning that employs artificial neural networks, particularly multi-layered architectures, inspired by the structure and function of the human brain. DL excels at processing high-dimensional data such as:

\* Images (e.g., object detection)

\* Text (e.g., sentiment analysis)

\* Speech (e.g., voice recognition)

While NLP and Computer Vision are application domains, and Machine Learning is the broader category, Deep Learning is the correct specific technique known for handling such complex tasks.

As per the PECB Lead Auditor Study Guide - Domain 1, Deep Learning is used when large volumes of unstructured or complex data are involved, and is referenced as the foundation of modern AI systems like voice assistants, recommendation engines, and image recognition tools.

#### **NEW QUESTION # 65**

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