

# Marvelous PECB Exam ISO-IEC-42001-Lead-Auditor Vce



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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>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>
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>• 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 5	<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 6	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

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## Quiz 2025 Unparalleled Exam ISO-IEC-42001-Lead-Auditor Vce & ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Customizable Exam Mode

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## PECB ISO/IEC 42001:2023 Artificial Intelligence Management System Lead Auditor Exam Sample Questions (Q182-Q187):

### NEW QUESTION # 182

Which core element focuses on ensuring that the creators and operators of AI systems are responsible for the outcomes and impacts of those systems?

- A. Accountability
- B. Safety and Reliability
- C. Privacy and Security
- D. Fairness and Non-Discrimination

**Answer: A**

Explanation:

Accountability is the core principle that ensures individuals or organizations involved in the design, development, and deployment of AI systems are responsible for their outcomes, decisions, and impacts.

According to ISO/IEC 42001:2023 - Clause 5.3 and Clause 6.1.2, accountability requires organizations to define roles and responsibilities, ensure that systems are monitored for risks, and establish escalation or remediation procedures when negative impacts occur.

The PECB Lead Auditor Guide - Domain 1 highlights accountability as a key requirement for maintaining trust, legal compliance, and ensuring AI systems operate under clear lines of governance and oversight.

### NEW QUESTION # 183

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:

Did Audrey conduct the audit process for the outsourced operation correctly? Refer to Scenario 3.

- A. No, she should have gathered audit evidence concerning the contractual agreement between the two parties
- B. No, Audrey should not have been responsible for determining whether appropriate governance processes are in place for engaging outsourced persons or organizations
- **C. Yes, she reviewed the company's processes for monitoring the quality of outsourced operations**
- D. Yes, but only if the contract terms were re-audited

**Answer: C**

Explanation:

Audrey acted correctly because she focused on the governance and quality monitoring processes of outsourced services.

\* ISO/IEC 42001 Clause 8.1 ("Operational Planning and Control") requires organizations to ensure that external providers' activities are controlled, monitored, and reviewed during audits.

\* The Lead Auditor Guide for ISO/IEC 42001 states: "It is sufficient to review outsourced process management without directly auditing the contract itself unless otherwise stated in the audit objectives." Reference: ISO/IEC 42001:2023 Clause 8.1; Lead Auditor Study Guide Section 6.2 ("Auditing Outsourced Activities").

### NEW QUESTION # 184

The process to assess the potential consequences for individuals or groups of individuals, or both, and societies that can result from the AI system throughout its life cycle is known as:

- A. AI System Risk Assessment
- B. None of the above
- C. Documentation of AI Systems
- **D. AI System Impact Assessment**

**Answer: D**

Explanation:

The correct term here is AI System Impact Assessment (AIIA), which is distinctly referenced in ISO/IEC 42001:2023 - Clause 6.1.2 as part of the organization's process to identify and assess potential impacts of AI systems on stakeholders.

An AIIA is designed to evaluate the ethical, societal, legal, and human rights implications of AI use. It supports transparency, stakeholder trust, and ethical alignment.

While AI Risk Assessment (Clause 6.1.1) focuses more on organizational and system-level risks (e.g., technical, legal), the Impact Assessment looks at external consequences - especially for individuals and groups.

### NEW QUESTION # 185

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 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's integrity and reliability, reflecting a significant deviation from the diligence and informed judgment expected of auditors.

Based on the scenario above, answer the following question:

Did Augustine possess the knowledge and skills required to be appointed as an audit team leader?

- A. Yes, Augustine had the required knowledge and skills to exercise the role of an auditor
- B. No, Augustine lacked understanding of Heala's organizational structure, objectives, and management practices necessary for an auditor
- C. No, Augustine did not possess knowledge on Heala's operations and products

### Answer: A

Explanation:

According to ISO/IEC 17021-1:2015 (used for auditor competence requirements in management system certification), audit team leaders must demonstrate competence in:

Understanding of audit principles, processes, and methods

Knowledge of relevant standards (such as ISO/IEC 42001)

Familiarity with organizational context, statutory/regulatory frameworks, and management systems Ability to collect and evaluate objective evidence Communication and leadership skills

Based on the scenario:

Augustine had deep knowledge of ISO/IEC 42001, audit principles, regulatory requirements, and Heala's context.

He reviewed strategic documents, conducted interviews, and applied AI tools effectively to enhance evidence-based auditing.

His oversight in audit planning (failing to evaluate complexity, resources, and expectations) reflects a lapse in planning diligence, not a lack of knowledge or qualification.

Therefore, Augustine met the knowledge and skill requirements of an auditor and audit team leader. His failure in audit planning relates to execution, not competency, so Option C is correct.

Reference:

ISO/IEC 17021-1:2015, Clause 7.2.5 - Competence of audit team leader

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

PECB ISO/IEC 42001 Lead Auditor Guide, Chapter 5 - Auditor competencies and ethical conduct ChatGPT said:

### NEW QUESTION # 186

Based on Scenario 7, what sampling method was used to assess TastyMade's adherence to some requirements of Clause 4.1

Understanding the organization and its context?

Scenario 7: TastyMade, headquartered in Hamburg, Germany, is an established company in the food manufacturing industry that applies AI technologies in its operations. It has implemented an artificial intelligence management system AIMS based on ISO/IEC 42001 to further strengthen its AI management and ensure compliance with international standards. As part of its commitment to excellence and continual improvement, TastyMade is undergoing an audit process to achieve certification against ISO/IEC 42001. In preparation for the audit, TastyMade collaborated closely with the audit team leader to develop a detailed audit plan. This plan encompassed objectives, criteria, scope, and logistical arrangements for both on-site and remote audit activities. Recognizing the specialized nature of AI integration, a technical expert was brought in to support the audit team and ensure comprehensive coverage of relevant aspects. Upon discussion with the audit team leader, it was mutually decided that not every audit team member would

need a guide throughout the audit process. At times, the TastyMade itself would assume the role of the guide, actively facilitating audit activities.

A formal opening meeting was held with TastyMade's management to provide an overview of the audit process and set expectations. During this meeting, key interested parties were briefed on the audit objectives and the methodologies that would be employed during the audit. Following the meeting, the audit team proceeded with their work, collecting information and conducting tests to evaluate the effectiveness of TastyMade's AIMS.

Daily evening meetings were held to review progress, discuss encountered issues, and facilitate collaboration among audit team members. The audit team leader adopted an open communication approach, encouraging all auditors to share their findings and challenges.

The communication regarding the progress of the audit

was informal, allowing for a fluid exchange of information and updates among team members.

To verify adherence to some requirements of clause 4.1 Understanding the organization and its context, the audit team arbitrarily selected for analysis a representative sample of AI management practices across different departments and functions within the company.

During the audit process, the technical expert uncovered certain technical and operational findings related to the integration and governance of AI systems.

Recognizing the significance of these findings, the expert promptly informed the audit team leader.

Understanding the need for further clarification and direct

communication, the audit team leader authorized the technical expert to address the findings directly with the auditee. However, to ensure proper oversight, the expert was supervised by one of the audit team members.

Throughout the audit, it became apparent that TastyMade promoted a culture of autonomy and decentralized decision-making in AI integration processes. Employees were empowered to set goals, allocate responsibilities, and devise methodologies independently, with management providing guidance and support as needed. This approach fostered innovation and agility within the company

- A. Judgmental
- **B. Random**
- C. Systematic
- D. Stratified

**Answer: B**

Explanation:

The scenario states:

"The audit team arbitrarily selected for analysis a representative sample of AI management practices across different departments and functions..." The term "arbitrarily selected" indicates a random sampling method. In audit terminology, random sampling means that the sample is chosen without a specific pattern, giving each unit an equal chance of selection. This is appropriate when assessing general compliance across diverse functions or areas.

Reference:

ISO 19011:2018, Clause 6.5.5 - Audit sampling techniques

PECB ISO/IEC 42001 Lead Auditor Study Guide - Section: Sampling Approaches

## NEW QUESTION # 187

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