



ISO/IEC 42001 – Artificial Intelligence Management System

**Add value.
Inspire trust.**

Embrace the future of AI with confidence

Your challenges

While AI systems are revolutionary, they can perpetuate bias and raise ethical concerns. Protecting vast datasets used in AI training is paramount. This necessitates stringent measures to prevent breaches and comply with data privacy regulations. The “black box” nature of AI poses challenges as organisations strive to develop transparent and explainable AI systems.

AI integration requires meticulous planning and execution to ensure seamless operation with existing systems and processes. Keeping pace with the ever-changing AI regulatory landscape is essential for businesses to maintain compliance and mitigate risks. Despite potential AI efficiencies, challenges such as change management and interoperability can create increased costs and inefficiencies. The introduction of AI also opens new cybersecurity attack surfaces, emphasising the need for heightened security measures. As the impact of AI varies

across industries, understanding these nuances is crucial. Businesses must develop effective AI strategies and leverage digital transformation for growth and innovation.

What is ISO/IEC 42001?

ISO/IEC 42001 is an international standard that defines the requirements for establishing, implementing, maintaining, and continuously improving an Artificial Intelligence Management System (AIMS). It offers guidance on managing the complexities of AI, from data-centric approaches to responsible practices throughout the AI lifecycle. ISO/IEC 42001 is relevant to any organisation, regardless of size, type, and nature, that provides or uses products or services that utilise AI systems. It is a holistic approach that integrates seamlessly with existing management systems like ISO 9001 (quality), ISO/IEC 27001 (information security), and ISO/IEC 27701 (privacy).

Why is ISO/IEC 42001 important for your business?

There are several key reasons why ISO/IEC 42001 is significant for businesses operating in the AI landscape:

- **Responsible AI management:** It addresses ethical concerns and promotes responsible AI development and deployment. This ensures transparency and fairness.
- **Trust and reputation:** AIMS implementation demonstrates a commitment to responsible AI practices. This enhances trust among stakeholders and safeguards reputation.
- **Compliance and risk management:** The standard helps organisations align with statutory and regulatory requirements. This mitigates risks associated with AI technology.
- **Efficiency and innovation:** AIMS provides a structured approach to AI management. This enhances efficiency and fosters innovation, enabling organisations to stay ahead in a competitive landscape.

How can we help you?

As a leading business assurance company, TÜV SÜD offers third-party certification services for ISO/IEC 42001:2023. This helps you to enhance credibility and open doors to new opportunities. We also offer integrated management system certification, which streamlines the evaluation process, reducing time and resource investment.

Your business benefits:

- **Enhanced Brand Reputation and Trust:** Demonstrate responsible AI development and deployment to enhance your brand reputation.
- **Trust by Design — Accelerating Market Access & Establishing a Competitive Trust Edge:** Build trust with investors, regulators, and customers (B2B, B2C, B2G).
- **Trust by Design — Lower your costs by Driving Operational Excellence:** Reduce operational friction and enable agile AI innovation – shift to the left.
- **Trust by Design — Reducing Multi-Dimensional AI Risks:** a structured AI management system to manage risks, enhance efficiency, and navigate regulatory landscapes with confidence.
- **Trust by Design — Enhance Insurability & Reduce Liability Premiums:** Demonstrating to underwriters that AI systems are proactively governed.

Why choose TÜV SÜD?

As TÜV SÜD is vendor agnostic, our third-party audits are impartial and independent. Our global network of experienced and highly qualified auditors can support you with certification services across the world. Pursuing a holistic approach, our experts offer IT certifications according to a wide range of international standards. Our certification mark efficiently demonstrates your commitment to compliance and quality.



Add value. Inspire trust.

TÜV SÜD is a trusted partner of choice for safety, security and sustainability solutions. It specialises in testing, certification, auditing services. Since 1866, the company has remained committed to its purpose of enabling progress by protecting people, the environment and assets from technology related risks. Through more than 28,000 employees across over 1,000 locations, it adds value to customers and partners by enabling market access and managing risks. By anticipating technological developments and facilitating change, TÜV SÜD inspires trust in a physical and digital world to create a safer and more sustainable future.

Related services

TÜV SÜD provides the following related services

- ISO 9001 Quality management systems
- ISO 22301 Business continuity
- ISO/IEC 27001 Information security
- ISO/IEC 27701 Privacy