



Manufacturing Advantage LLC Artificial Intelligence Management System (AIMS)

AIMS MANUAL

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1. Purpose

This manual defines the Artificial Intelligence Management System (AIMS) implemented by Manufacturing Advantage LLC in accordance with **ISO/IEC 42001:2023**.

It establishes the framework for responsible, ethical, and effective management of artificial intelligence systems across their lifecycle—from design and development through deployment, monitoring, and decommissioning.

2. Scope

The scope of this AIMS covers:

The design, development, integration, and management of AI-enabled automation, vision, and data-driven systems used in manufacturing operations. The full Scope is described in Addendum **AIMS-006**.

The AIMS applies to all employees, contractors, and partners who design, implement, or operate AI solutions under the control of Manufacturing Advantage LLC. Excluded processes are limited to third-party activities not managed by the company.

3. Normative References

- ISO/IEC 42001:2023 — Artificial Intelligence Management System Requirements
- ISO 9001:2015 — Quality Management Systems
- ISO/IEC 27001:2022 — Information Security Management Systems
- ISO 31000 — Risk Management Principles and Guidelines

4. Terms and Definitions

Unless otherwise defined herein, terms are as specified in ISO/IEC 42001:2023.

Key terms:

- AIMS: Artificial Intelligence Management System
- AI System: A machine-based system capable of inferring from data and influencing real or virtual environments.
- Bias: Systematic error leading to unfair outcomes or discrimination.
- Transparency: Ability to explain an AI system's behavior and decision logic.

5. Context of the Organization

5.1 Understanding the Organization and Its Context (clause 4.1)