

Quality control and compliance reporting

Automates quality control inspections and compliance reporting for cold storage facilities by monitoring temperature logs, product conditions, and regulatory requirements to generate audit-ready documentation.

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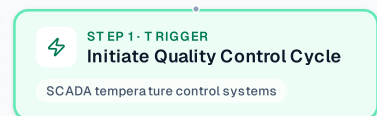


WORKFLOW TRIGGER

Scheduled quality control inspection period begins (daily/weekly cycle)

Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Initiate Quality Control Cycle

Scheduled trigger activates daily or weekly quality control inspection process. System begins collecting data from all monitoring systems for compliance evaluation.

2

 ACTION

Retrieve Temperature and Inventory Data

Pulls temperature logs, humidity readings, and current inventory status from warehouse management and monitoring systems. Consolidates data from all cold storage zones and product locations.

SCADA temperature control systems

SAP Extended Warehouse Management

Refrigeration monitoring software

3

 DECISION

Evaluate Compliance Thresholds

Analyzes collected data against FDA, HACCP, and facility-specific quality standards. Determines if any temperature excursions, inventory discrepancies, or equipment anomalies require immediate attention.

Refrigeration monitoring software

4

 ACTION

Flag Non-Compliant Products

Identifies specific inventory lots affected by temperature violations or quality issues. Updates product status in WMS and creates quarantine orders for affected items.

SAP Extended Warehouse Management

Manhattan Associates WMS

5

 ACTION

Generate Compliance Documentation

Creates automated quality control reports, temperature charts, and audit trails. Compiles evidence of compliance adherence and documents any corrective actions taken.

Oracle Warehouse Management

SCADA temperature control systems

6

OUT PUT

Distribute Quality Reports

Sends completed compliance reports to quality managers, regulatory bodies, and stakeholders. Archives documentation for audit purposes and triggers alerts for any critical issues.

Oracle Warehouse Management



Outputs

- Daily/weekly compliance reports
- Product quarantine notifications
- Regulatory audit documentation



Key Metrics

- Compliance score percentage

- Number of temperature excursions

AI Business OS



Tools & Integrations

- SCADA temperature control systems
- SAP Extended Warehouse Management
- Refrigeration monitoring software
- Manhattan Associates WMS
- Oracle Warehouse Management

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