

Quality control inspection and reporting

Automates quality control inspection processes by triggering inspections at production milestones, capturing test data, analyzing results against specifications, and generating compliance reports. Reduces manual inspection overhead while ensuring product quality standards are consistently met.

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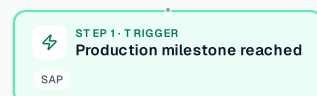


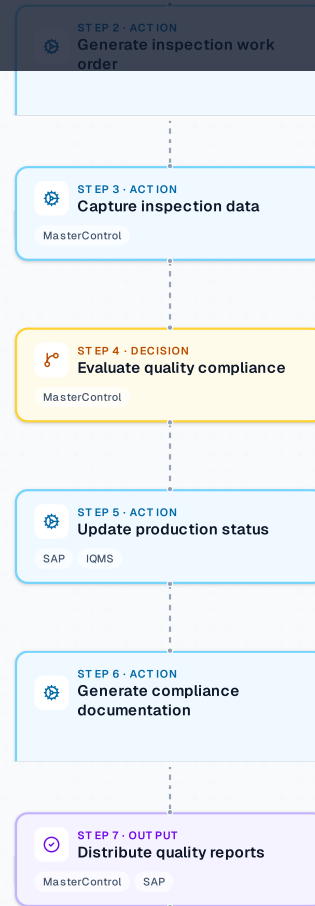
WORKFLOW TRIGGER

Production batch reaches quality checkpoint milestone

Visual Flow

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





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Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Production milestone reached

SAP detects that a production batch has completed a manufacturing stage and is ready for quality inspection. The system automatically queues the

2

 ACTION

Generate inspection work order

IQMS creates a quality inspection work order with specific test requirements, sampling protocols, and acceptance criteria based on the product specifications. The work order is assigned to available quality inspectors.

IQMS

3

 ACTION

Capture inspection data

Quality inspectors perform tests and measurements, entering results directly into MasterControl's quality management system. Test data includes dimensional measurements, material properties, and visual inspection results.

MasterControl

4

 DECISION

Evaluate quality compliance

MasterControl automatically compares inspection results against predefined specifications and tolerance limits. The system determines if the batch passes, fails, or requires additional testing.

MasterControl

5

Update production status

Based on quality results, SAP updates the batch status to either approved for next stage, held for rework, or rejected. Inventory levels and production schedules are automatically adjusted.

SAP

IQMS

6

ACTION

Generate compliance documentation

MasterControl automatically creates quality certificates, inspection reports, and regulatory compliance documents. All documentation is stored with full traceability and audit trail.

MasterControl

7

OUTPUT

Distribute quality reports

Completed quality reports and certificates are automatically distributed to production managers, customers, and regulatory bodies as required. Failed batches trigger immediate notifications to quality management.

MasterControl

SAP



Outputs

- Quality inspection certificates
- Compliance documentation
- Production batch approval status



Key Metrics

- First-pass quality rate
- Inspection cycle time
- Quality cost per unit



Tools & Integrations

- SAP
- IQMS
- MasterControl

AI Business OS

AI Business OS

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