



WMS Warehouse Equipment Maintenance & IoT Checklist 2026

IoT Sensor & Connectivity Audit

Verification of network stability, sensor battery levels, and real-time data transmission integrity for all connected warehouse devices.

Audit Execution Date

Network Signal Strength Status

- ☐ Excellent
- ☐ Stable
- ☐ Intermittent
- ☐ Critical/Offline

Number of Active Sensors Verified

Connectivity Issues Identified

- ☐ Packet Loss
- ☐ Latency Spikes
- ☐ Hardware Timeout
- ☐ Dead Zones

Sensor Discrepancy Notes

Write something...

Network Latency Report (Logs)

 Upload File

Auditor Verification

Automated Guided Vehicle (AGV) & AMR Maintenance

Routine inspection of autonomous mobile robots, including sensor calibration, obstacle detection testing, and drive motor lubrication.

Inspection Date

Enter date...

AGV/AMR Unit ID

- ☐ AGV-001
- ☐ AGV-002
- ☐ AMR-010
- ☐ AMR-011

Maintenance Tasks Performed

- ☐ Sensor Calibration
- ☐ Obstacle Detection Test
- ☐ Tire/Wheel Inspection
- ☐ Battery Health Check
- ☐ Firmware Update

Current Battery Percentage

Enter a number...

Anomalies or Hardware Issues Detected

Write something...

Photo of Inspection/Damage

 Upload File

Technician Signature

Handheld Scanner & Mobile Terminal Inspection

Physical and functional assessment of RF scanners, rugged tablets, and wearable technology to ensure seamless WMS communication.

Inspection Date

Enter date...

Device ID/Asset Tag Number

Write something...

Physical Damage Detected

- ☐ Cracked Screen
- ☐ Damaged Charging Port
- ☐ Broken Scan Trigger
- ☐ Battery Swelling
- ☐ None/No Damage

Scanner Connectivity Status

- ☐ Connected (Wi-Fi/5G)
- ☐ Intermittent Connection
- ☐ Offline/No Signal

Current Battery Percentage

Enter a number...

Maintenance Notes & Observations

Write something...

Photo of Device Condition

 Upload File

Inspector Signature

Warehouse Conveyor & Sorting System Health Check

Maintenance of belt tension, motor temperatures, and sensor-triggered sorting accuracy within the automated conveyor network.

Inspection Date

Enter date...

Conveyor Belt Condition

- ☐ Excellent
- ☐ Good
- ☐ Fair - Requires Attention
- ☐ Critical - Needs Immediate Repair

Motor Temperature (°C)

Enter a number...

Components Inspected

- ☐ Drive Belts
- ☐ Sensors/Photoeyes
- ☐ Motor Bearings
- ☐ Sorting Diverters
- ☐ Emergency Stops

Maintenance Notes & Observations

Write something...

Upload Maintenance Photos

 Upload File

Technician Signature

Automated Storage and Retrieval System (AS/RS) Calibration

Scheduled checks for robotic arm precision, crane movement smoothness, and structural integrity of high-density storage units.

Calibration Date

Enter date...

AS/RS Unit ID

- ☐ Unit-A1 (North Wing)
- ☐ Unit-A2 (North Wing)
- ☐ Unit-B1 (South Wing)
- ☐ Unit-B2 (South Wing)

Sensor Deviation Margin (mm)

Enter a number...

Calibration Tasks Completed

- ☐ Vertical Mast Alignment
- ☐ Load Weight Sensor Testing
- ☐ Rail Path Smoothness Check
- ☐ Emergency Brake Calibration

Maintenance Observations & Anomalies

Write something...

Calibration Certificate/Report

 Upload File

Technician Approval

Battery Management & Charging Station Maintenance

Assessment of lithium-ion battery health for electric forklifts and automated carts, including charging dock cleanliness and power stability.

Inspection Date

Enter date...

Charging Station Status

- ☐ Operational
- ☐ Needs Repair
- ☐ Under Maintenance

Average Battery Voltage Level (%)

Enter a number...

Maintenance Tasks Completed

- ☐ Terminal Cleaning
- ☐ Cable & Connector Inspection
- ☐ Contact Point Lubrication
- ☐ Cooling Fan Dusting

Observed Anomalies or Damage Notes

Write something...

Technician Verification

Label Printer & RFID Tagging Hardware Care

Cleaning of thermal print heads, calibration of RFID encoding modules, and replenishment of high-durability label supplies.

Inspection Date

Enter date...

Printer Model/ID

- ☐ Zebra ZT411
- ☐ Zebra ZT610
- ☐ Honeywell PM45
- ☐ Other

Print Head Condition

- ☐ Excellent - Clean
- ☐ Good - Minor Wear
- ☐ Needs Cleaning
- ☐ Critical - Replacement Required

Maintenance Tasks Completed

- ☐ Print head cleaned with isopropyl alcohol
- ☐ Roller/Platen cleaned
- ☐ RFID antenna calibration performed
- ☐ Sensor alignment checked
- ☐ Firmware update verified

Current Label Roll Count (Remaining)

Enter a number...

Maintenance Notes & Defect Details

Write something...

Photo of Print Quality/Output

 Upload File

Technician Signature

IoT Gateway & Edge Computing Maintenance

Software updates and physical inspection of edge gateways that bridge warehouse hardware with the central WMS cloud/server.

Inspection Date

Enter date...

Gateway Status

- ☐ Operational
- ☐ Degraded Performance
- ☐ Offline/Critical Failure

Signal Strength (RSSI) in dBm

Enter a number...

Completed Maintenance Tasks

- ☐ Firmware Update Performed
- ☐ Cache Cleared
- ☐ Physical Cleaning Performed
- ☐ Connectivity Re-established

Observation Notes & Error Logs

Write something...

Upload System Log Report

 Upload File

Technician Verification

Warehouse Environment & Climate Monitoring

Verification of smart temperature, humidity, and light sensors to ensure compliance with stored goods requirements via IoT alerts.

Inspection Date

Current Ambient Temperature (°C/°F)

Current Humidity Level (%)

Sensor Status

- ☐ Operational
- ☐ Malfunctioning
- ☐ Offline/No Signal

Climate Deviations Detected

- ☐ Temperature Spike
- ☐ High Humidity
- ☐ Low Humidity
- ☐ Power Fluctuations

Notes on Environmental Anomalies

Write something...

Upload Sensor Log Export

 Upload File

Inspector Signature

Emergency Shutdown & Manual Override Testing

Validation of physical E-stop buttons and software-based emergency stop protocols for all integrated warehouse automation.

Inspection Date

Enter date...

Emergency Stop Locations Verified

- ☐ Main Conveyor Line
- ☐ AGV Charging Zone
- ☐ Packing Station A
- ☐ Dock Area 1-5
- ☐ AS/RS Control Hub

Manual Override Functionality Status

- ☐ Fully Operational
- ☐ Partial Failure - Requires Maintenance
- ☐ Critical Failure - Immediate Repair Needed

Maintenance Notes & Discrepancies

Write something...

Safety Inspector Signature

< Previous

> Next

✓ Finish

 **Generate Sample Report**