

Rayterton Supply Chain Management (SCM)

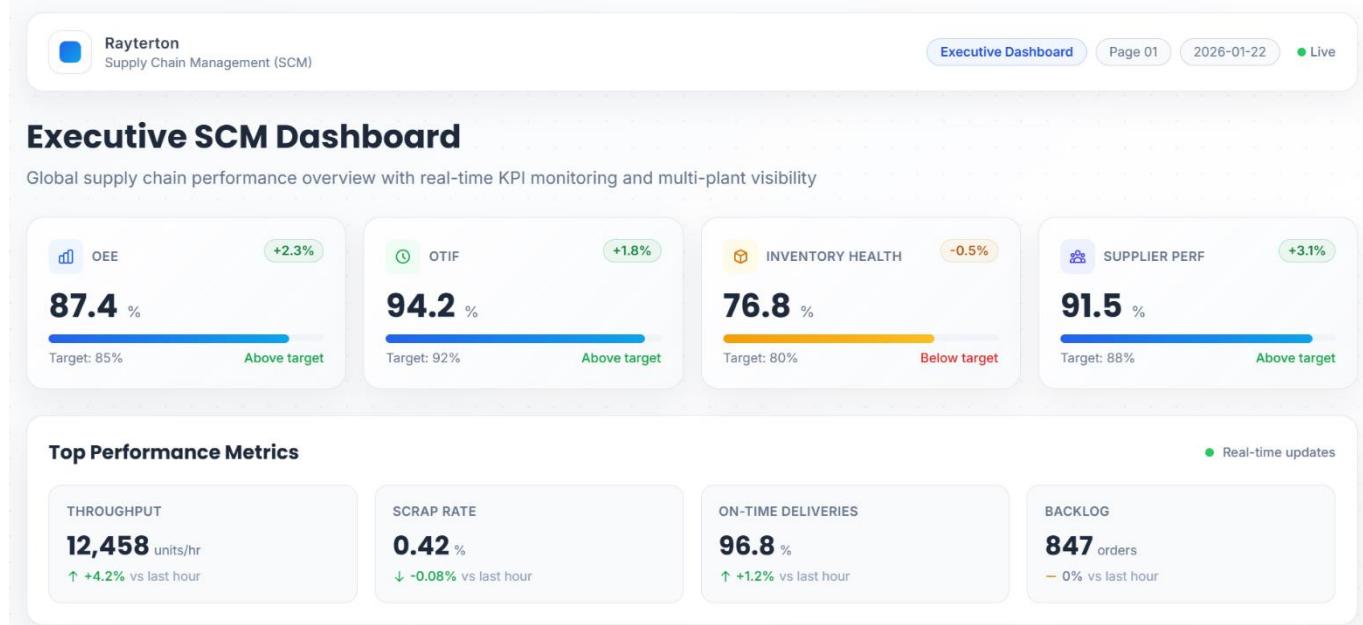
Control your global supply chain from order intake to delivery, with real time insights, optimized performance, and multi-plant visibility.

End to End Supply Chain Management

Rayterton **Supply Chain Management (SCM)** solution optimizes supply chain operations, from order intake and production planning to inventory management, supplier performance, and real-time shipment tracking across multiple plants and production lines. Our system integrates seamlessly with ERP, MRP, WMS, QMS, and TMS, ensuring end-to-end visibility and operational efficiency.

Executive SCM Dashboard

Executive SCM Dashboard provides managers with a comprehensive view of the entire supply chain's performance, offering real-time data and insights across multiple plants. It tracks key performance indicators (KPIs) such as **OEE**, **OTIF**, **Inventory Health**, and **Supplier Performance**, allowing decision-makers to identify bottlenecks, optimize processes, and ensure smooth operations.



Multi-Plant Overview

A Plant Alpha
Singapore • 4 Lines

OEE: 89.2% | OTIF: 95.8% | Throughput: 4,521 | Score: 92.5

Rank #1 >

B Plant Beta
Vietnam • 4 Lines

OEE: 86.7% | OTIF: 93.4% | Throughput: 4,238 | Score: 88.9

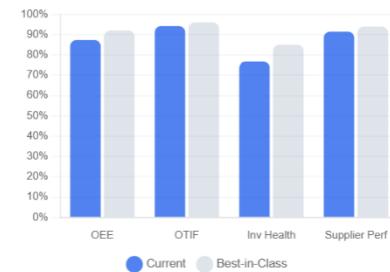
Rank #2 >

C Plant Gamma
Thailand • 4 Lines

OEE: 84.1% | OTIF: 91.2% | Throughput: 3,699 | Score: 84.3

Rank #3 >

Benchmarking



Line Performance Ranking

All Plants ▼ 12 Lines

RANK	LINE	PLANT	OEE	OTIF	THROUGHPUT	SCRAP	SCORE
1	Line A-01	Alpha	91.4%	97.2%	1,245	0.28%	95.8
2	Line A-02	Alpha	90.8%	96.5%	1,198	0.31%	94.3
3	Line B-01	Beta	89.2%	95.1%	1,156	0.35%	92.7
4	Line A-03	Alpha	88.6%	94.8%	1,134	0.38%	91.5
5	Line B-02	Beta	87.4%	93.2%	1,089	0.41%	89.8
6	Line C-01	Gamma	86.8%	92.5%	1,067	0.44%	88.2

Order Management Live Tracking

Order Management Live Tracking module enables seamless order tracking from ERP through the production process, ensuring that materials, capacity, and priorities are aligned. Orders can be dynamically updated with real-time status tracking, providing a clear picture of the order lifecycle.

Order Management Live Tracking

Real-time order tracking with ERP and MRP integration, capacity synchronization, and material availability

TOTAL ORDERS

52 orders

Across 3 plants



PENDING APPROVAL

8 orders

Awaiting review

8

IN PRODUCTION

28 orders

Active processing

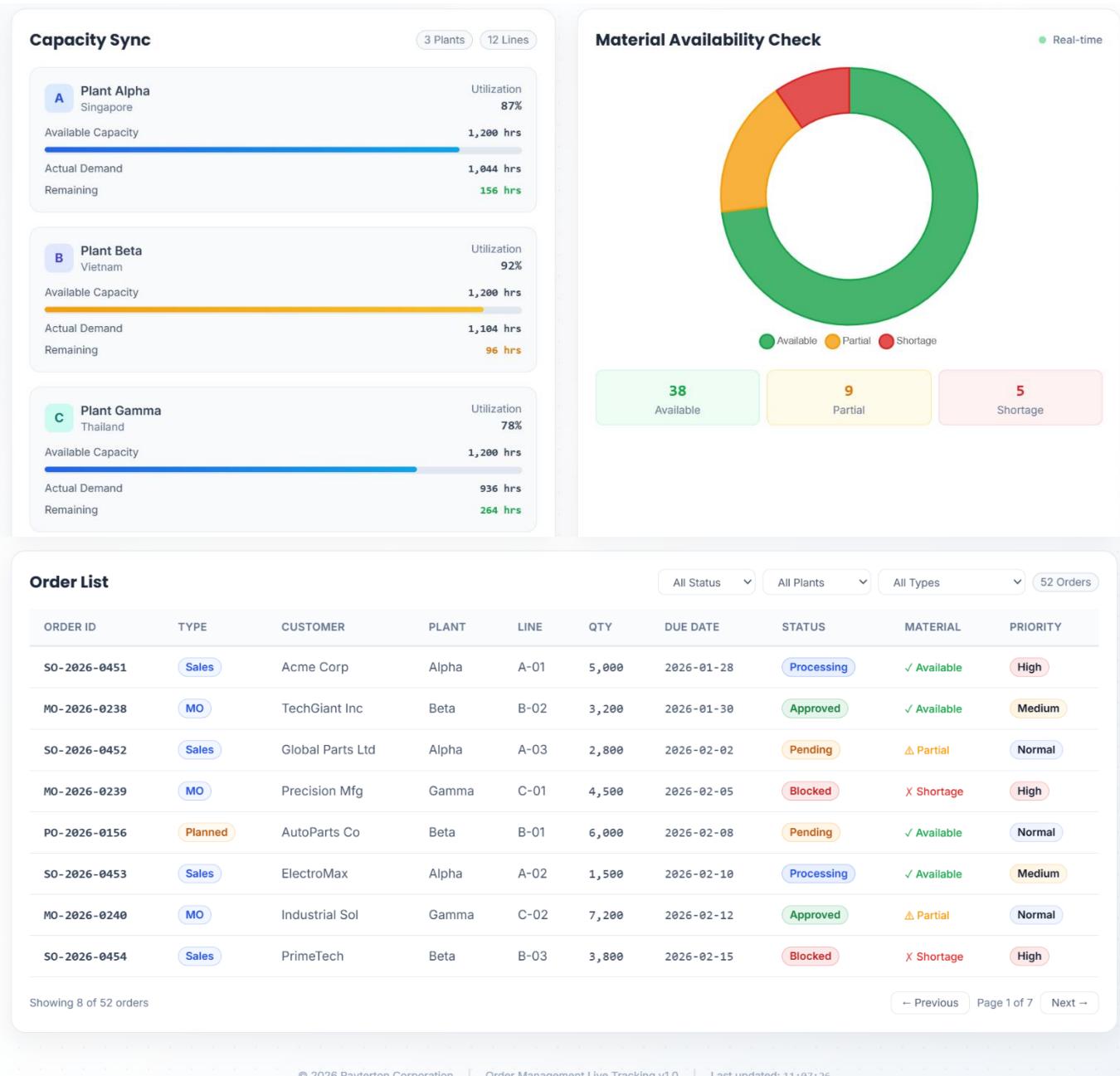
28

BLOCKED

3 orders

Material shortage

3



Supply and Production Planning Gantt Chart

Supply and Production Planning module offers a **Gantt chart view** of production schedules, helping planners visualize the allocation of resources and materials. The system accounts for material availability, tooling, and capacity constraints, making it easier to manage complex production schedules.

Rayterton Supply Chain Management (SCM) Production Planning Page 03 2026-01-22 Live

Supply and Production Planning Gantt Chart

Real-time production scheduling with material, capacity, and changeover constraints

Plant: All Plants Line: All Lines Shift: All Shifts Refresh Export

Production Schedule - 24 Hour View

5 Lines 100+ Ops

Production Setup Maintenance Changeover Blocked

Line	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22
A Line A-01	SO-0451	CO		SO-0453		Setup		MO-024									
A Line A-02	Setup	MO-0238		Maint		SO-0452		CO									
B Line B-01	PO-0156	CO		SO-0454		Blocked											
B Line B-02	Maint	MO-0239		CO		MO-0240		Setup									
C Line C-01	Setup	MO-0241		CO		SO-0456		Maint									

Constraints

MATERIAL AVAILABILITY

- Raw Material A Stock: 12,450 units ✓ OK
- Component B Stock: 2,100 units (Low) ▲ Low
- Material C Stock: 450 units (Critical) X Critical

TOOLING STATUS

- Mold-001 Available on Line A-01 ✓ OK
- Die-023 In maintenance until 14:00 ▲ Busy

CAPACITY LIMITS

- Line A-01 87%

What-If Scenarios

Run Simulation

Current Plan	Material Delay	Equipment Failure	Overtime
Baseline schedule	Material C delayed 24hrs	Line B-01 down 4hrs	Add 8hrs capacity
Efficiency 87%	Efficiency 78%	Efficiency 72%	Efficiency 94%
On-Time 92%	On-Time 84%	On-Time 76%	On-Time 98%

Operations Summary

100+ Operations

TOTAL OPERATIONS	COMPLETED TODAY	IN PROGRESS	SCHEDULED
124 ops	38 ops	56 ops	30 ops
Across 5 lines	+12% vs yesterday	Active now	Next 24 hours

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Real Time Production Shop Floor

Real Time Production Shop Floor module guides operators with **digital work instructions**, ensuring task consistency and reducing errors. Each task is tracked in real-time, with progress monitored through the system. Scans for material, tool IDs, and operator badges are enforced to ensure full traceability.

The screenshot displays the Real Time Production Shop Floor interface. At the top, there is a header with the Rayterton logo, a sub-header 'Enterprise Software Solution', and a title 'Manufacturing Execution System Whitepaper & Product Brochure'. Below the header, the main content is organized into several sections:

- Operator Information:** Shows the operator 'John Martinez' (ID: OP-0247), station 'Line A-01', shift 'Morning (06:00-14:00)', order 'SO-0451', and product 'Assembly-X200'.
- Task Progress:** Displays 5 completed, 1 in progress, 6 pending, and 2 sign-offs tasks out of 12 total. Overall progress is 42%.
- Time Tracking:** Shows shift start at 06:00:00, current time at 11:09:52, task time at 02:34:19, and estimated remaining time at 01:25:45. Buttons for 'Pause' and 'Resume' are present.
- Work Instruction Steps:** Lists two steps: 'Verify Material Batch' (Done) and 'Inspect Tooling' (Done). Each step includes a description and a timestamp (Scanned: LOT-2024-01567 • Verified: 08:15:32 and Inspect tool T-0245 for wear and damage. Verify calibration date is valid).
- Real-Time Scanning:** Shows operator badge (OP-0247), material lot (LOT-2024-01567), tool ID (T-0245), and serial number (Scan serial number...). A note indicates 'Waiting for scan...' and 'Format: SN-XXXX-XXXX'.
- Attachments & Documents:** Lists four attachments: 'SOP-ASM-001.pdf' (2.4 MB, Assembly SOP), 'QC-FIN-003.xlsx' (1.8 MB, QC Checklist), 'Tool-Diagram.png' (856 KB, Tool Reference), and 'Training-Video.mp4' (45.2 MB, Operator Training).

At the bottom of the interface, there is a footer with copyright information: '© 2026 Rayterton Corporation | Real-Time Production Shop Floor v1.0 | Last updated: 11:10:27'.

Machine Data Collection & Event Tracking

Machine Data Collection allows real-time monitoring of machine performance and event tracking. The module records machine **start/stop times, changeovers, alarms, and downtime events**, providing a comprehensive timeline of machine operations.

Rayterton Supply Chain Management (SCM) Machine Data Page 05 2026-01-22 Live

Machine Data Collection Event Tracking

Real-time machine event timeline with live status monitoring and sensor signal mapping

TOTAL EVENTS **127** events This shift

ACTIVE MACHINES **52** machines **48 online, 4 offline**

ACTIVE ALARMS **3** active **2 critical, 1 warning**

TOTAL DOWNTIME **1.4** hrs Across all plants

SYNC RATE **98.7** % **Excellent sync**

Event Timeline All Events 127 Events

Run Stop Changeover Alarm Downtime

- Machine Started** Line A-01 • Machine M-001 Operator: OP-0247 • Order: SO-0451
- Critical Alarm** Line B-02 • Machine M-023 **Temperature High** • Value: 85°C (Max: 75°C)
- Machine Stopped** Line B-02 • Machine M-002

08:45:32 09:12:15 09:15:47

Machine Status Live

A Plant Alpha 12 online

- M-001 **Running**
- M-002 **Running**
- M-003 **Warning**
- M-004 **Running**

B Plant Beta 10 online

All Machines 50+ Sensors

Signal Mapping – Sensor Status

M-001 Line A-01	M-002 Line A-02	M-003 Line A-03	M-004 Line B-01
Temp 42°C	Temp 38°C	Temp 45°C	Temp 40°C
Pressure 2.4 bar	Pressure 2.1 bar	Pressure 2.3 bar	Pressure 2.2 bar
Speed 1,250 rpm	Speed 1,180 rpm	Speed 1,320 rpm	Speed 1,200 rpm
Vibration 2.1 mm/s	Vibration 1.8 mm/s	Vibration 4.2 mm/s	Vibration 2.0 mm/s
Power 85%	Power 78%	Power 92%	Power 82%

Plant Overview 5 Plants 50+ Machines

A Plant Alpha Singapore 12 online 12 machines	B Plant Beta Vietnam 10 online 10 machines	C Plant Gamma Thailand 10 online 10 machines	D Plant Delta Malaysia 12 online 12 machines	E Plant Echo Indonesia 8 online 8 machines
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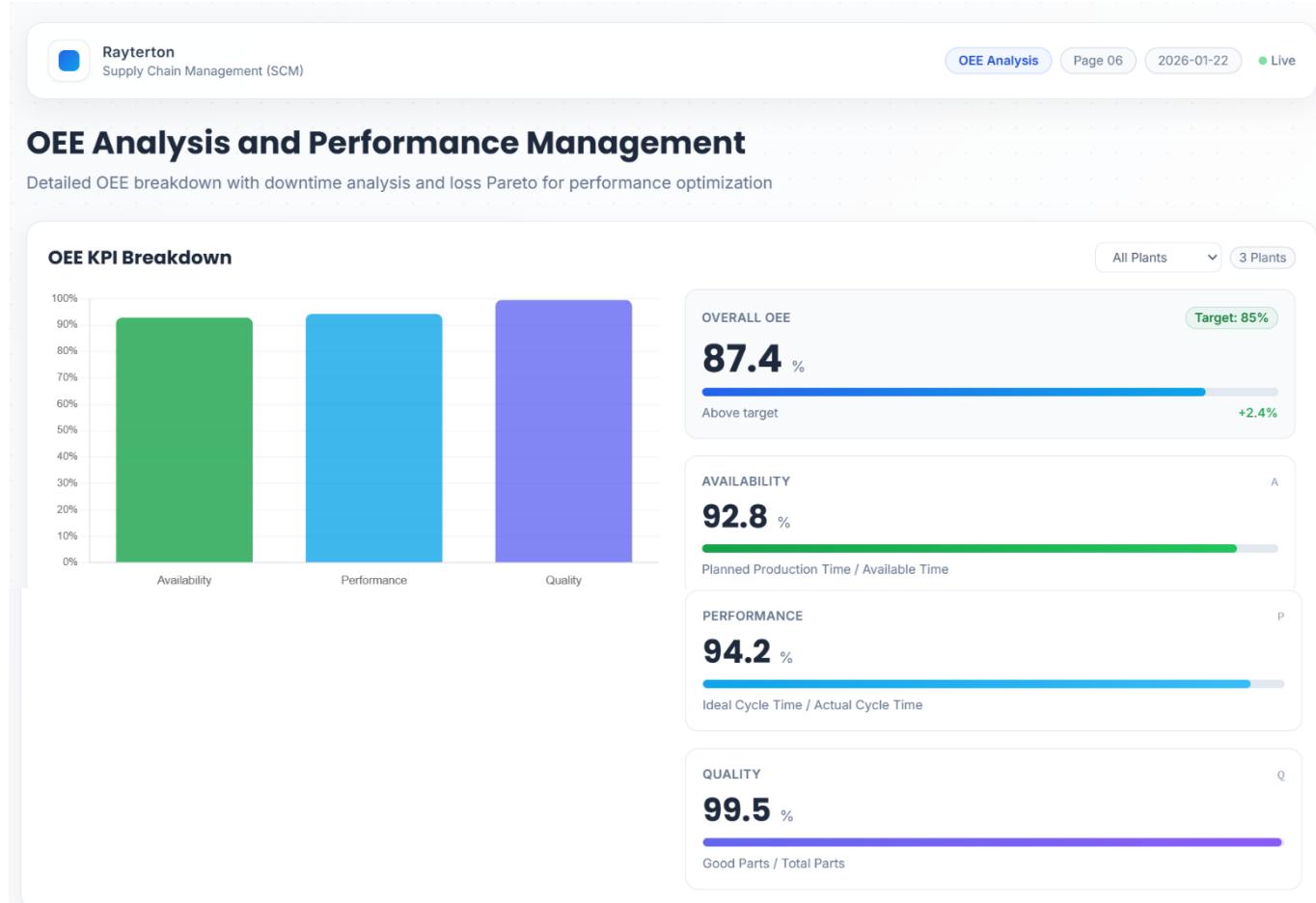
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OEE Analysis and Performance Management

OEE Analysis provides a deep dive into production efficiency by breaking down OEE into **Availability, Performance, and Quality**. It links losses to **reason codes** and **events**, helping teams identify key areas for improvement.



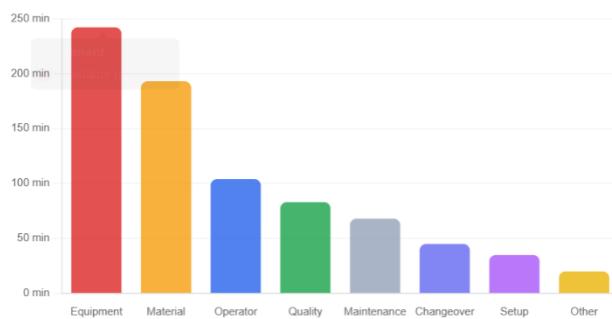
Downtime Timeline

10 Reason Codes | 3 Lines >100min

LINE	START	END	DURATION	REASON CODE	DESCRIPTION	IMPACT
Line A-01	08:15:00	09:45:00	90 min	EQ-001	Equipment Failure - Motor	High
Line B-02	09:20:00	11:05:00	105 min	MT-002	Material Shortage	High
Line B-02	11:30:00	13:45:00	135 min	OP-003	Operator Absence	Medium
Line C-01	10:00:00	12:15:00	135 min	MN-004	Scheduled Maintenance	Low
Line A-02	12:30:00	13:20:00	50 min	QL-005	Quality Hold	Medium
Line A-01	13:45:00	14:30:00	45 min	EQ-001	Equipment Failure - Sensor	Medium
Line B-01	14:15:00	16:00:00	105 min	MT-002	Material Shortage	High
Line C-01	14:30:00	15:10:00	40 min	EQ-001	Equipment Failure - Drive	Medium
Line A-03	15:00:00	16:30:00	90 min	OP-003	Operator Absence	Medium

Pareto of Losses

10 Reason Codes



Loss Breakdown by Reason

Total: 690 min

EQ-001	Equipment Failure	35%	242 min
MT-002	Material Shortage	28%	193 min
OP-003	Operator Issues	15%	104 min
QL-005	Quality Issues	12%	83 min
MN-004	Maintenance	10%	68 min

Reason Code Legend:

EQ-001 Equipment Failure |
 MT-002 Material Shortage |
 OP-003 Operator Issues |
 QL-005 Quality Issues |
 MN-004 Maintenance

Line Performance Summary

3 Lines >100min Downtime | 12 Lines Total

A	Line A-01	135 min	B	Line B-02	240 min	C	Line C-01	175 min	A	Line A-03	90 min
OEE	89.2%		OEE	82.1%		OEE	85.4%		OEE	88.7%	
Availability	91.5%		Availability	88.3%		Availability	90.1%		Availability	92.8%	
Performance	96.8%		Performance	94.5%		Performance	95.2%		Performance	97.1%	
Quality	99.2%		Quality	98.5%		Quality	99.8%		Quality	98.9%	

Andon Escalation, and Alert System

Andon Escalation module tracks issues in real-time, from material shortages to quality concerns. With an **SLA timer**, the system ensures that each issue is resolved within the predefined time frame.

The screenshot displays the Andon Escalation and Alert System interface. At the top, there is a header with the Rayterton logo, the text "Supply Chain Management (SCM)", and navigation buttons for "Andon System", "Page 07", "2026-01-22", and a green "Live" button. Below the header, the main title "Andon Escalation and Alert System" is displayed, followed by the subtext "Real-time issue tracking with automatic escalation and rapid response management".

The interface features several key performance indicators (KPIs) in a row:

- TOTAL CALLS:** 23 calls (This shift)
- ACTIVE CALLS:** 7 active (3 critical, 4 warning)
- ESCALATIONS:** 8 escalated (5 to L2, 3 to L3)
- SLA COMPLIANCE:** 52% (Within SLA)
- Avg Response:** 4.2 min (Since shift start)

Below these KPIs, there are two main sections:

- Andon Call List:** A list of four active issues:
 - Material Shortage - Line A-01:** Raw material A-001 out of stock. Production stopped. Need urgent replenishment. (Critical, Line: A-01, Operator: OP-0247, 08:45:32)
 - Equipment Failure - Line B-02:** Motor M-023 failure. Temperature exceeded limit. Emergency stop activated. (Critical, Line: B-02, Operator: OP-0251, 09:12:15)
 - Quality Issue - Line A-02:** Defective parts detected. Quality hold initiated. Need inspection. (Warning, Line: A-02, Operator: OP-0248, 09:35:42)
 - Maintenance Needed - Line C-01:** Tool T-0245 calibration expired. Preventive maintenance required. (Warning, Line: C-01, Operator: OP-0252, 10:05:18)
- Escalation Timer:** A circular timer showing the time until an issue escalates to the next level. It includes buttons for "Acknowledge" and "Assign".
 - Material Shortage (Line A-01):** Escalating to L2 in 2:45 (02:26)
 - Quality Issue (Line A-02):** Escalating to L2 in 5:30 (05:11)
 - Operator Request (Line B-01):** Escalating to L2 in 8:15 (07:34)

Action Panel

Acknowledge

Confirm receipt of Andon call and start response timer.

Acknowledge Call

Assign

Assign issue to responsible team or personnel for resolution.

Assign Team

Resolve

Mark issue as resolved and close the Andon call.

Resolve Issue

Escalate

Manually escalate to next level if SLA not met.

Escalate Now

Selected: Material Shortage - Line A-01

Escalation Levels & SLA

L1 Line Supervisor

5 min SLA

Calls Received	23
Within SLA	18 (78%)
Escalated	5

L2 Plant Manager

15 min SLA

Calls Received	5
Within SLA	4 (80%)
Escalated	1

L3 Operations Director

30 min SLA

Calls Received	1
Within SLA	1 (100%)
Escalated	0

8 Escalations Today

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Quality Control In Process And SPC

In-Process Quality Control and Statistical Process Control (SPC) to monitor production quality in real time.

Rayterton
Supply Chain Management (SCM)

Quality Control | Page 08 | 2026-01-22 | Live

Quality Control In Process and SPC

Real-time SPC monitoring with quality checks and CAPA integration for proactive issue detection

DATA POINTS

32 points

This shift

RULE VIOLATIONS

2 violations

CAPA triggered

PASS RATE

94 %

30/32 samples

CPK INDEX

1.45 index

Excellent

ACTIVE CAPA

2 actions

In progress

UCL (Upper Control Limit) **105.5**

Mean (X-bar) **100.2**

LCL (Lower Control Limit) **94.9**

Std Dev (σ) **1.8**

Quality Checks

30/32 Passed

Sample #001

Pass

Dimension check: 100.2 mm (Target: 100 ±2 mm)

Line: A-01 • Operator: OP-0247 • 08:15:32

Sample #002

Pass

Dimension check: 99.8 mm (Target: 100 ±2 mm)

Line: A-01 • Operator: OP-0247 • 08:20:45

Sample #003

Fail

Dimension check: 106.8 mm (Target: 100 ±2 mm) - Rule Violation: Point beyond UCL

Line: A-01 • Operator: OP-0247 • 08:25:18

Root Cause & CAPA

2 Active CAPA

NCR NCR-001

In Progress

Issue: Dimension out of specification (106.8 mm vs 100 ±2 mm)

Root Cause Analysis:

- Tool wear detected on T-0245
- Calibration drift in measurement system
- Operator error in setup verification

Corrective Actions:

- ✓ Stop production on Line A-01
- ✓ Replace tool T-0245
- ○ Recalibrate measurement system
- ○ Retrain operator on setup procedures

Update CAPA

View NCR

NCR NCR-002

In Progress

Issue: Dimension out of specification (93.2 mm vs 100 ±2 mm)

Root Cause Analysis:

- Material batch variation detected
- Tool setup parameter incorrect
- Temperature fluctuation affecting material

SPC Rules Status

Western Electric Rules

Rule 1

Point beyond limits

● 2 violations

Samples #003, #015

Rule 2

9 points on one side

● No violations

All within limits

Rule 3

6 points trending

● No violations

1 near violation (5 points)

Rule 4

14 points alternating

● No violations

All within limits

Sampling Schedule

Every 30 min | 5 samples/shift

LINE

SAMPLE

SCHEDULED

COMPLETED

RESULT

ACTION

Line A-01

#001

08:00

08:15

Pass

No action

Line A-01

#002

08:30

08:45

Pass

No action

Line A-01

#003

09:00

09:15

Fail

CAPA: NCR-001

Line B-02

#014

09:30

09:45

Pass

No action

Line B-02

#015

10:00

10:15

Fail

CAPA: NCR-002

Line C-01

#016

10:30

10:45

Pass

No action

Traceability and Genealogy Tracking

Traceability and Genealogy Tracking module provides comprehensive visibility into the lifecycle of products, enabling you to trace each component, lot, and serial number across the entire supply chain.

Traceability Genealogy Tracking

Full forward and backward traceability with component lot connections from raw materials to finished goods

Filter & Drill Down

12 Nodes Connected

Serial Number: SN-2024-0001 | Lot Number: LOT-2024-01567 | Batch ID: BATCH-001 | Time Window: Last 24 Hours

Genealogy Explorer

Backward | Forward

FG Finished Goods

- Product: Assembly-X200 | SN-2024-0001 | Lot: LOT-2024-01567 | Batch: BATCH-001 | Line: A-01 | OK
- Product: Assembly-X200 | SN-2024-0002 | Lot: LOT-2024-01567 | Batch: BATCH-001 | Line: A-01 | OK
- Product: Assembly-X200 | SN-2024-0003 | Lot: LOT-2024-01567 | Batch: BATCH-001 | Line: A-02 | OK

ASM Assembly Process

- Step: Assembly Operation 1 | OP-ASM-001 | Line: A-01 | Machine: M-001 | Operator: OP-0247 | 08:15:32
- Step: Assembly Operation 2 | OP-ASM-002 | Line: A-01 | Machine: M-001 | Operator: OP-0247 | 08:28:45
- Step: Quality Check | OP-QC-003 | Line: A-01 | Machine: M-001 | Operator: OP-0247 | 08:35:18

COMP Components

- Component: Housing | COMP-001 | Lot: LOT-2024-01001 | Supplier: SUP-001 | Batch: BATCH-A01
- Component: PCB Board | COMP-002 | Lot: LOT-2024-01002 | Supplier: SUP-002 | Batch: BATCH-A02
- Component: Motor | COMP-003 | Lot: LOT-2024-01003 | Supplier: SUP-003 | Batch: BATCH-A03

RM Raw Materials

- Material: Aluminum Alloy | RM-AL-001 | Lot: LOT-2024-00001 | Supplier: SUP-M001 | Country: CN
- Material: Copper | RM-CU-001 | Lot: LOT-2024-00002 | Supplier: SUP-M002 | Country: CL
- Material: Steel | RM-ST-001 | Lot: LOT-2024-00003 | Supplier: SUP-M003 | Country: IN
- Material: Plastic | RM-PL-001 | Lot: LOT-2024-00004 | Supplier: SUP-M004 | Country: VN

Finished Goods Trace

Process Steps

✓ Assembly Operation 1 08:15:32 Line A-01 Machine M-001	✓ Assembly Operation 2 08:28:45 Line A-01 Machine M-001
✓ Quality Check 08:35:18 Line A-01 Machine M-001	
✓ Packaging 08:45:22 Line A-01 Machine M-001	
✓ Labeling 08:50:10 Line A-01 Machine M-001	

Quality Results

Dimension Check	Pass
Visual Inspection	Pass
Functional Test	Pass
Machine & Operator History	
M Machine: M-001 Line: A-01 Operator: OP-0247 Shift: Morning	
M Machine: M-001 Line: A-01 Operator: OP-0247 Shift: Morning	
M Machine: M-001 Line: A-01 Operator: OP-0247 Shift: Morning	
M Machine: M-001 Line: A-01 Operator: OP-0247 Shift: Morning	

SN-2024-0001

Component Lot Connections

4 Components

C COMP-001	C COMP-002	C COMP-003	C COMP-004
Housing	PCB Board	Motor	Plastic Parts
Lot: LOT-2024-01001	Lot: LOT-2024-01002	Lot: LOT-2024-01003	Lot: LOT-2024-01004
Supplier: SUP-001	Supplier: SUP-002	Supplier: SUP-003	Supplier: SUP-004
Batch: BATCH-A01	Batch: BATCH-A02	Batch: BATCH-A03	Batch: BATCH-A04
Country: CN	Country: CL	Country: IN	Country: VN

Traceability Summary

12 Nodes Connected

Finished Goods 3 units Serial: SN-2024-0001 to SN-2024-0003	Components 4 types Housing, PCB, Motor, Plastic	Raw Materials 4 types Aluminum, Copper, Steel, Plastic	Suppliers 4 countries CN, CL, IN, VN
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NCR & CAPA Management Flow

Track and manage **Non-Conformance Reports (NCR)** and **Corrective and Preventive Actions (CAPA)** with a structured workflow and audit trail, ensuring continuous improvement and compliance. **NCR and CAPA Management Flow** ensures that every deviation from quality standards is documented and addressed through a well defined process.

The screenshot displays the Rayterton Apps Manufacturing Execution System. The top navigation bar includes the Rayterton Apps logo, a search bar, and links for 'Dashboard', 'NCR CAPA', 'Page 10', '2026-01-22', and 'Live'. The main content area is titled 'NCR CAPA Management Flow' and describes the workflow for Non-Conformance Reports and Corrective and Preventive Actions.

Dashboard Summary:

- TOTAL NCRS:** 10 reports (This month)
- ACTIVE CAPA:** 5 actions (In progress)
- OPEN NCRS:** 3 open (Awaiting action)
- VERIFIED:** 2 verified (Closed)
- Avg Resolution:** 5.2 days (Avg. time to close)

NCR List:

NCR ID	Severity	Line	Product	Root Cause	Status	Due Date	Owner
NCR-001	Critical	Line A-01	Assembly-X200	Tool wear detected	In Progress	2026-01-25	QA-MGR-001
NCR-002	Critical	Line B-02	Assembly-X200	Material batch variation	In Progress	2026-01-26	QA-MGR-002
NCR-003	Major	Line A-01	Assembly-X200	Calibration drift	In Progress	2026-01-27	QA-MGR-001
NCR-004	Major	Line C-01	Assembly-X200	Temperature fluctuation	In Progress	2026-01-28	QA-MGR-003
NCR-005	Major	Line A-02	Assembly-X200	Operator error	In Progress	2026-01-29	QA-MGR-001
NCR-006	Minor	Line B-01	Assembly-X200	Documentation issue	Verified	2026-01-20	QA-MGR-002
NCR-007	Verified	Line C-01	Assembly-X200	Packaging defect	Verified	2026-01-18	QA-MGR-003
NCR-008	Critical	Line A-01	Assembly-X200	Dimension out of spec	Open	2026-01-30	QA-MGR-001
NCR-009	Critical	Line B-02	Assembly-X200	Quality hold	Open	2026-01-31	QA-MGR-002
NCR-010	Critical	Line C-01	Assembly-X200	Functional failure	Open	2026-02-01	QA-MGR-003

CAPA Workflow:

CAPA CAPA-001 | NCR-001 (Status: In Progress)

Issue: Tool wear detected on T-0245 causing dimension out of specification

Actionable Tasks:

- Replace tool T-0245
Owner: MN-004 | Due: 2026-01-25 (Status: Done)
- Recalibrate measurement system
Owner: QA-001 | Due: 2026-01-26 (Status: In Progress)
- Retrain operator on setup procedures
Owner: HR-001 | Due: 2026-01-27 (Status: Pending)

CAPA CAPA-002 | NCR-002

In Progress

Issue: Material batch variation causing dimension out of specification

Actionable Tasks

Replace material batch

Owner: PUR-001 | Due: 2026-01-26

Done

Verify tool setup parameters

Owner: MN-004 | Due: 2026-01-27

In Progress

Check temperature control system

Owner: MN-004 | Due: 2026-01-28

Pending

CAPA CAPA-003 | NCR-003

In Progress

Issue: Calibration drift in measurement system

Actionable Tasks

Recalibrate measurement equipment

Owner: QA-001 | Due: 2026-01-27

In Progress

Update calibration schedule

Owner: QA-MGR-001 | Due: 2026-01-28

Pending

CAPA CAPA-004 | NCR-004

In Progress

Issue: Temperature fluctuation affecting material

Actionable Tasks

Check temperature control system

Owner: MN-004 | Due: 2026-01-28

In Progress

Document material supplier issue

Owner: PUR-001 | Due: 2026-01-29

Pending

CAPA CAPA-005 | NCR-005

In Progress

Issue: Operator error in setup verification

Approval Process & Audit Trail

NCR-001

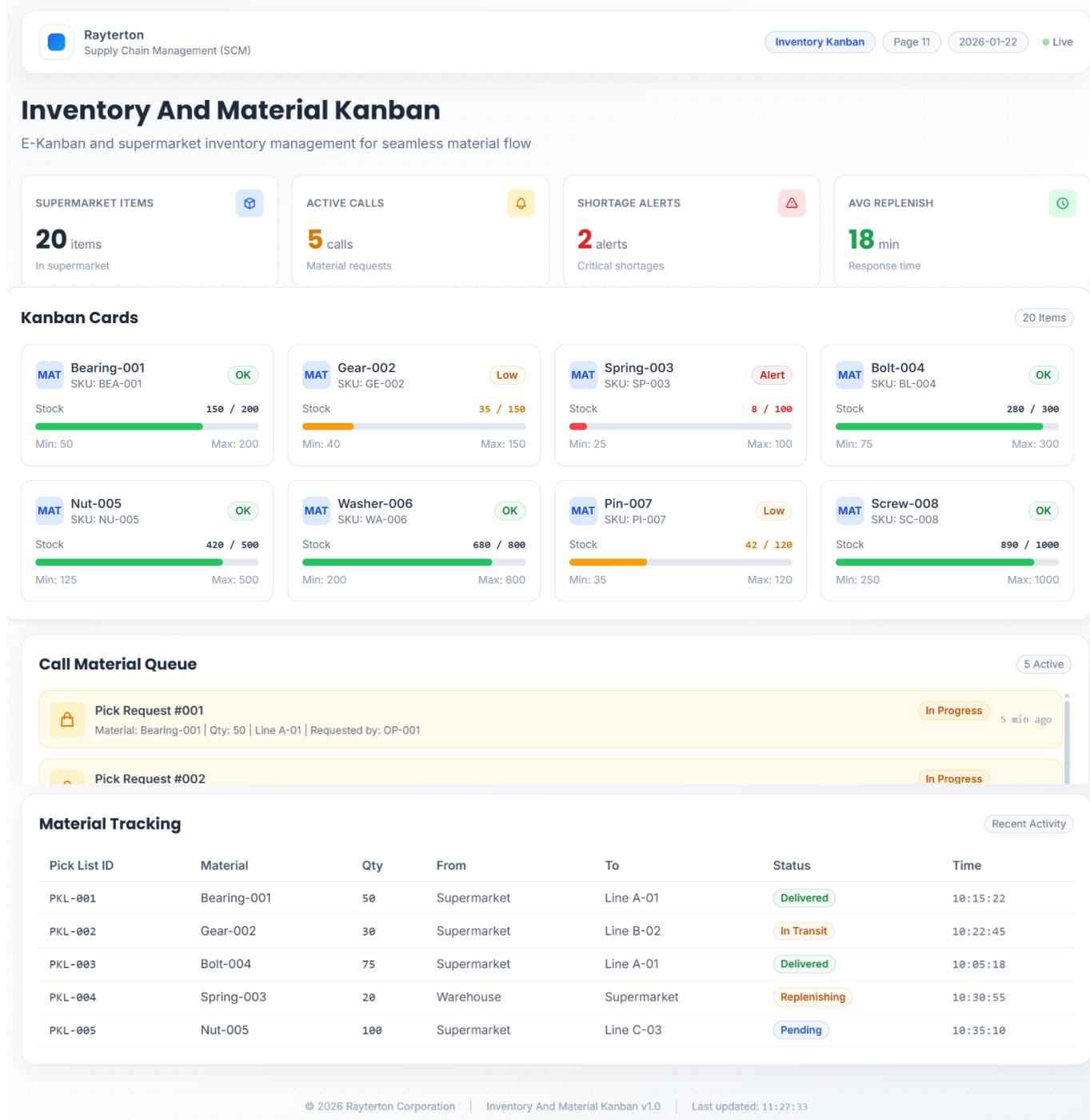
	NCR Created	2026-01-22 08:15:32
	Created by: QA-MGR-001 Line A-01	
	Root Cause Analysis	2026-01-22 10:30:45
	Analyzed by: QA-MGR-001 Root cause: Tool wear detected	
	CAPA Initiated	2026-01-22 11:00:18
	Initiated by: QA-MGR-001 CAPA-001 created	
	Task 1 Completed	2026-01-25 14:20:55
	Completed by: MN-004 Tool T-0245 replaced	
	Task 2 In Progress	2026-01-26 09:15:22
	In progress by: QA-001 Recalibrating measurement system	
	Task 3 Pending	Due: 2026-01-27
	Assigned to: HR-001 Retrain operator on setup procedures	
	Verification Pending	Due: 2026-01-30
	Verification by: QA-MGR-001 Sign-off required	
	Final Approval	Due: 2026-01-31
	Approval by: Plant Manager Sign-off required	

[View Full Audit Trail](#)

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Inventory & Material Kanban

Manage inventory and materials efficiently with **eKanban** and **supermarket inventory management**, ensuring uninterrupted material flow on the production line. **Inventory & Material Kanban** module helps streamline material management by automating the tracking of inventory levels and material requests.



The dashboard provides a comprehensive overview of material management across various departments:

- Header:** Rayterton Supply Chain Management (SCM) logo, Inventory Kanban, Page 11, 2026-01-22, and a green 'Live' status indicator.
- Key Metrics:** SUPERMARKET ITEMS (20 items, In supermarket), ACTIVE CALLS (5 calls, Material requests), SHORTAGE ALERTS (2 alerts, Critical shortages), and AVG REPLENISH (18 min, Response time).
- Kanban Cards:** A grid of 8 cards showing stock levels for various parts (Bearing-001, Gear-002, Spring-003, Bolt-004, Nut-005, Washer-006, Pin-007, Screw-008) against their respective min and max thresholds. Each card includes a status indicator (OK, Low, Alert).
- Call Material Queue:** A list of active material requests, including 'Pick Request #001' for Bearing-001 (In Progress, 5 min ago) and 'Pick Request #002' (In Progress).
- Material Tracking:** A table showing the status of 5 pick lists (PKL-001 to PKL-005) with details like Material ID, Quantity, Location, Status, and Time.

At the bottom, a footer bar displays the copyright information: © 2026 Rayterton Corporation | Inventory And Material Kanban v1.0 | Last updated: 11:27:33.

Control Tower Executive KPI Analytics

Provide an executive-level view to monitor SCM KPIs across all plants, enabling data-driven decision-making at the managerial level. **Control Tower Executive KPI Analytics** module offers a comprehensive overview of key supply chain performance metrics (KPIs), helping leadership track performance and make informed decisions.

KPI Overview

5 Key Metrics

Key Metric	Value	Target	Variance
OEE	87.5 %	85%	+2.5% vs last week
THROUGHPUT	1,250 units/hr	1,200	+4.2% vs target
SCRAP RATE	2.3 %	< 3%	-0.4% vs last week
SCHEDULE ADHERENCE	94.8 %	95%	-0.2% vs target
DOWNTIME COST	\$12.5 K/hr	< \$15K	-\$2.5K vs target

Top Issues

3 Categories

Category	Issue Description	Severity	Count
Bottlenecks	Line A-01: Material shortage	Critical	3 critical
Overdue Andon	Andon #001: Line A-01 45 min overdue	High	2 pending
Quality Alerts	QA-001: Dimension out of spec	Review	4 active
Line B-02	Andon #002: Line B-02 30 min overdue	Review	Tool wear
Line C-03	QA-002: Surface defect	Review	Quality hold

Plant & Line Overview

3 Plants | 12 Lines | Good

Plant	Line	Performance
Plant Alpha	4 lines	OEE: 89.2% Good

Executive Insights

Decision Support

Priority Action	Impact
1. Resolve Line A-01 material shortage	Impact: \$5K/hr downtime
2. Address Line B-02 tool wear	Impact: \$3K/hr downtime
3. Clear overdue Andon calls	Impact: Production delays

Weekly Trend

Last 7 days performance

Day	Performance	Impact
Mon	85%	85%
Tue	87%	87%
Wed	86%	86%
Thu	84%	84%
Fri	88%	88%
Sat	90%	90%
Sun	87.5%	87.5%

Glossary

SCM (Supply Chain Management)

The overall process of managing the flow of materials, products, and information from suppliers to customers.

ERP (Enterprise Resource Planning)

The main business system used to manage orders, finance, inventory, and production.

MRP (Material Requirements Planning)

A system that calculates what materials are needed and when, based on production plans.

WMS (Warehouse Management System)

Software used to manage warehouse operations and inventory.

QMS (Quality Management System)

Software used to manage quality processes and compliance.

TMS (Transportation Management System)

Software used to plan, track, and manage transportation and shipments.

KPI (Key Performance Indicator)

A key number used to measure performance, such as delivery or inventory levels.

OEE (Overall Equipment Effectiveness)

A metric that measures how efficiently production equipment is used.

OTIF (On Time In Full)

A measure of whether customer orders are delivered on time and in the correct quantity.

SPC (Statistical Process Control)

A statistical method used to monitor and control production quality.

NCR (Non-Conformance Report)

A report created when products or processes do not meet quality requirements.

CAPA (Corrective and Preventive Action)

A structured process to fix quality problems and prevent them from happening again.

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