SP&E International LLC

SCM Functional Consultancy Service

Warehouse Assessment – 3 Steps Approach

- 1. Functional Audit
- 2. Performance Review
- 3. Recommendation





Scope of Work Processes Function Number of Process Group Number of Attributes Receiving & Inspection 9 14 Material Handling & Putaway 17 9 Slotting 6 Storage & Inventory Control 16 4 6 Picking and Packing 17 5 5 Load Consolidation & Shipping 18 6 6 Shipment Documentation 10 Warehouse Management System (WMS) 6 18 50 119





Warehouse Assessment 1. Functional Audit





- As we consider the attributes, we carefully review each attribute's level of maturity to determine and recommend specific area of process improvement.
- Support gradual process improvement program under the guideline of the WERC Warehouse Assessment & Certification Program.
- Prepare our clients facilities to meet industry standard

Process Group	Attributes	Poor Practice	Inadequate Practice	Common Practice	Good Practice	Best Practice
		Major Opportunity	Disadvantage	Average	Advantage	Best-in-Class
Strategy & Methods	1 - Visibility	Warehouse personnel have little or no knowledge regarding future shipment volumes	Warehouse is advised of exceptional order events only	Warehouse personnel can get information on outbound shipments on demand only Operations planning is based on historical data only	Warehouse personnel receive data-timely forecasts of anticipated or scheduled shipment order volumes and use data for planning operations	Warehouse personnel and systems use outbound shipment status for planning operations in hourly segments
	2 - Strategy	No picking strategy Outbound operations are generally ad hoc for each outbound order	Picking strategy is defined but not adequate to support current customer requirements	Picking strategy supports current customer requirements and may include more than one pick/ pack process	Picking strategy supports current customer requirements and may include a number of pick/ pack processes (Zone, Wave, Batch/consoli- dation, pick and pass, single order pick, kit picks)	Picking strategy supports current and planned customer requirements and will include multiple optimized pick/ pack processes Optimized wave picking and task interleaving
	3 – Methods	No process to review pick methods	Process to review pick methods not well defined	Review pick processes and strategy by product group typically once per year. Simulations and modeling may be used on a project basis	Review pick processes and strategy for each product at least once per year. Modeling and simulations may be performed as part of review process	Review pick processes and strategy for each product at least once per quarter Modeling and simulations are run frequently



Crossdocking	10 - Process		0	1	0	0
Process documentation Inspection	8 - Ownership 9 - Process		0	0	0	0
Communication	7 - Format	1	Mille	0	0	0
Product Labeling	6 - Source	1		0	0	0
Transactions	5 - Processing	0	2	1	0	0
	3 - Unloading 4 - Yard Management	0	0	1 1	0	0
Dock / Yard Management	1 - Visibility 2 - Appoitments	0	0 1	0	0	0
Process Group	Attributes	Poor Practice Major Opportunity	Inadequate Practice Disadvantage	Average	Advantage	Best-in-Class



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Warehouse Assessment 2. Performance Review





Warehouse Assessment – Performance Review

Material Handling & Putaway							
KPI	Definition	Calculation					
Equipment / Forklift capacity used	The amount of up time logged for equipment / forklifts.	Amount of time equipment is used / total amount of time available for use.					
Material handling damage	Measures the value of material damaged from handling/storage as a percentage of COGS	The value of material damaged from dling/storage / COGS.					
Lines received & putaway per hour	Measures the productivity of receiving operations in lines processed and put aw per person hour.	lines received and put away / Total person hours worked in the receiving operation.					
Dock-to-stock cycle time, in Hours	The dock-to-stock cycle time et the mile (typically measured in hours) wire to put away goods. The cycle ne go when goods arrive from the tup to and ends when those good are put in the warehouse and recorde to the enventory management system.	For a given time period: sum of the cycle time in hours for all supplier receipts / Total number of supplier receipts.					
Lines Picked and Shipped per Person Hour	Measures the productivity of picking and shipping operations in lines per person hour. Can be used as a measure of pick area replenishment strategy.	Total order lines picked and shipped / Total hours worked in the picking and shipping operation.					
	NOTE: included in this section due to the impact that replenishment processes can have on picking						



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Warehouse Assessment Recommendation





Warehouse Assessment – Recommedation





