Lean Supply Chain Best Practice Process Benchmark Framework









Overview

This document draws from the results of an APICS 2004 survey on the development and adoption of lean principles in supply chain management. It does not represent an endorsement of a particular company, methodology, or solution, but rather, it demonstrates APICS' efforts to provide you with insight into current issues and emerging trends.

Lean manufacturing's impact on businesses today cannot be ignored: lean principles have enabled firms to be more flexible and more profitable. This has led many to ask if these same principles can be applied to logistics and supply chain management--how do firms practice the fundamental principles of lean to build adaptive, flexible and creative supply chains?

Over the last few years supply chain professionals have been working on means to reduce wasted effort and excessive inventories by applying the principles of lean manufacturing across the supply chain. In order to accomplish this task supply chain partners must first understand what Lean is, and then increase the level of collaboration and teamwork between themselves.

As the trend to outsource non-core functions continues we see that improved communications and visibility between supply chain members is imperative, and today we are blessed with technology that can make this possible. Even though the partners may be a half a world apart geographically, they can exchange accurate information in a real time basis. However, having technology available is of no benefit if it is not properly implemented, understood or used.

While the concept of a Lean Supply Chain is not new, it is clear from our survey that many organizations have yet to adopt it. And, while the adoption rate is low, the benefits are seen to be quite high. Actionable information should lead to quantifiable results and our research bears this out. Survey participants who were lean adopters reported improved collaboration, an increased use of standards in processes and materials, reduced SKU counts and inventory levels, and a general reduction in Cost of Goods Sold when compared to the non-adopters. A Lean Supply Chain is contributing to the bottom line.

The Lean Supply Chain Best Practice Process Attributes and Benchmarks are meant to be used as a tool to help companies identify potential gaps in their processes. Practitioners can use this tool to identify process strengths and weaknesses, and then focus their efforts on those areas where improvement efforts will drive the most benefit. Results can be shared and compared (with discretion) with other organizations in your supply chain to improve overall effectiveness.

We hope you find this tool helpful as you continue the process of devising, reviewing, and improving supply chain management initiatives within your company. They all should be evaluated against the end-goal of an adaptive cross-enterprise supply chain; one whose efficiency is only matched by its effectiveness.

APICS. ORACLE Supply hain Visions





		Poor Practice	Inadequate	Common	Good Practice	Best Practice	
1.0	Domand Manage	mont	Practice	Practice			
	Demand Manage			T -	T =	T =	
1.1	Demand Signal	Product is "pushed" through the channel based on forecasts	Demand forecasts are created based on actual usage of product (current stock levels, or min/max levels, or order points) and projected sales	Downstream Supply Chain Partners provide periodic forecasts to make the immediate upstream partner aware of requirements	Product is "pulled" through the channel based on actual usage data from upstream Supply Chain partners	Product is "pulled" through the channel using consumer demand from point of sale systems in near real time	Median Surv
1.2	Demand Collaboration	Supply Chain partners do not work together to share real or anticipated demand	Some discussions between key Supply Chain (2 or 3) partners to get better view of products and	Key Supply Chain partners (2 or 3) maintain regular communication regarding	Most Supply Chain partners (3 or more) exchange product and sales data	Demand is conveyed upstream to partners in real time from point of sale Partners jointly participate in analyzing	Median Survey Response
			markets	products and sales statistics	electronically, typically not real time	demand	
1.3	Sales & Operations Planning	S&OP are developed internally by unrelated teams	S&OP is an integrated cross- functional tool but does not include	Key Supply Chain Partners may be involved in S&OP as part	S&OP is a joint effort with all key Supply Chain Partners	S&OP is a collaborative process using on-line tools available to all Supply Chain Partners	
			Supply Chain Partners	of a Quarterly Business Review	sharing data and plans		Median Survey Response
1.4	Inventory Management Practice	Purchase based solely on unit price, without regard to total cost (corning)	Inventory is managed independently and focus is on the cost of the total	Supply Chain Partners collaborate on requirements in	Supply Chain Partners jointly consider lead time reductions	Supply Chain Partners have implemented inventory visibility systems and processes to reduce excess	Median Survey
		cost (carrying costs, transportation, etc.)	purchase	an effort to reduce excess inventory.	and postponement strategies	inventory throughout the supply chain	Response
2.0	Standardization						
2.1	Planning & Production Process Standardization	No attempts are made to standardize processes	Processes may be documented by the operator but may be	Processes are documented and general process	Processes used by the various Supply Chain partners are well	Planning, production and stock management processes are defined and standardized	Median S Response

APICS. ORACLE Lupply hain Visions





		Poor Practice	Inadequate Practice	Common Practice	Good Practice	Best Practice	
		internally or externally	considered "proprietary" and are not shared with Supply Chain Partners	understanding exists across the Supply Chain	understood by all, though not standardized	across the Supply Chain	
2.2	Company Product Standards	Products are non standard No shared components	Internal parties attempt to impose standardization of product components	Internal parties agrees to standardize product components	Actively look for opportunities to share components during new product development	Products developed have a high proportion of shared parts from other product lines	Median Survey Response
2.3	Industry Product Standards	No industry standards and products are considered to be "proprietary"	Individual partners attempt to set their own standards outside of industry standards groups	Partners make partial use of industry standards in development of new products	Partners agree to standardize products based on standards set by outside groups	SC Partners participate in industry standards bodies Partners use industry standards in development and manufacture of	Median Sur Response
2.4	Data Standards	Data is considered to be proprietary and is not shared	Individual Supply Chain Partners make information available to key partners but make no attempt to assist in data conversions	Key Supply Chain Partners (2 or 3) jointly develop data mapping to convert each other's proprietary formats	Key Supply Chain partners (2 or 3) use standardized data formats for information exchange.	products • All Supply Chain Partners exchange product, availability and sales related data using global and / or industry standard data formats	Median Surve Response
3.0	Waste						
3.1	Waste	Waste reduction is focused at the functional areas within the company	Company analyzes internal processes to minimize waste	Some Supply Chain partners are waste conscious but most focus on cost reduction and profit improvement	Some Supply Chain Partners begin working together to eliminate waste	All Supply Chain Partners understand end-to-end processes and work together to eliminating waste throughout the supply chain.	Median Survey Response

APICS. ORACLE Supply hain Visions





		Poor Practice	Inadequate Practice	Common Practice	Good Practice	Best Practice	
3.2	Value Added Activities	No clear distinction between value added and non- value added activities	Individual Supply Chain aware of Value Add, but have not actively worked to eliminate non- value added activities	Individual Supply Chain members focused on eliminating non- value adding operations within their own businesses	Collaborative practices are being explored with Supply Chain suppliers or customers to eliminate non-value added activities	Collaborative practices are actively being performed with both suppliers and customers to eliminate non-value added activities	Median Survey Response
4.0	Culture						
4.1	Continuous Improvement / Change Culture	No continuous improvement programs in place	Informal improvement projects in place	The need to change / improvement has been identified and communicated to the workforce by top	Operational level "change leaders" have been identified and are being educated on the need to change and how to	Management has a well-developed published vision for all facilities and has operating objectives that fully support the vision	Median Survey Response
				management	effect change	A continuous improvement culture exists across the supply chain	
4.2	People	 Employees are viewed as being expendable Most training is limited to on the job training 	Managers concerned about employees, but little institutional support or resources	 Managers actively work to manage employee turnover Some support for employee development 	 Resources made available for employee development Continuous improvement culture in place in most departments 	Employees believe that they are a valued asset Formal improvement processes in place	Median Survey Response
4.3	Teams	Little of no use of process improvement teams Teams work within a functional department only	Some use of cross functional teams within a company	Team members at individual Supply Chain member companies actively work together for internal processes only "What's In It For Me"	Cross company Supply Chain teams exist to develop an understanding of how process improvement practices can be implemented across supply chain partners	Cross company Supply Chain teams actively proactively recognize opportunities and enact positive change for the benefit of the entire supply chain, even if it means less revenue on behalf of their individual company	Median Survey Response

Lean Supply Chain Best Practice Process Benchmark Framework

APICS. ORACLE Supply hain Visions





		Poor Practice	Inadequate Practice	Common Practice	Good Practice	Best Practice
				(WIIFM) has been addressed at all levels and is		
	Lean as a Management Philosophy	Management does not believe that the concepts of lean are valid for their company	Management is educated in Lean concepts and has made a decision to adopt the philosophy, but has not set a formal process in place	 Key personnel identified to champion the transition to lean practices Some departments have implemented lean practices as a "pilot" 	Management has a written vision, mission and strategy regarding the Lean Supply Chain, and has communicated these ideas to the management team Lean practices / teams permeating all levels in the	Supply Chain Partners actively cooperate to implement lean practices across the supply chain
4.5	Implementation of lean	Implemented one or two tools of lean to learn more about impact on the company	Some lean tools are implemented sporadically across the organization No formal integrated implementation approach	A formal integrated approach to implementation has been developed and is being rolled out Awareness training is being performed at the operator level	company • Entire product flow is integrated, product flows smoothly through the facility • SC Partner companies are becoming involved in joint Lean practices	Lean production is standard procedure Continuous improvement activities are driven by the operators with management support







