



Applying Project Management Methodologies to the Supply Chain Environment



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Prepare your people

Agenda

- LeanCor Overview
- PMBOK and the Project Methodology
- Project Management in the Supply Chain
- Course Series Concepts & What's Covered





About LeanCor Supply Chain Group

Trusted partner with three *integrated* divisions that specialize in lean principles to advance supply chains.

"We Teach. We Consult. We Do."











Lean, Supply Chain, Six Sigma, Leadership Courses

Public, Private, Online Settings

End-to-End Supply Chain Advancement Solutions

Diagnostic, Assessment, Design and Deployment

Full-Service 3PL Solutions

Logistics Engineering, Transportation Management, Warehousing





PMBOK and the Project Management Methodology

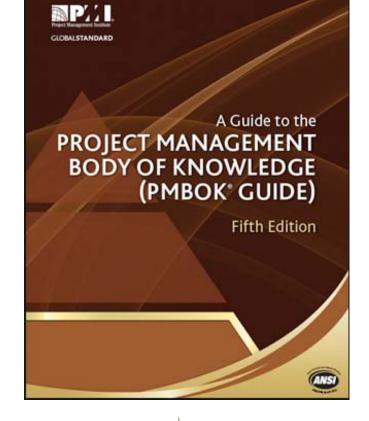
This course follows the methodology developed by the Project Management Institute (PMI) – the most recognized association for project management professionals.

This general purpose project management guide outlines the best practices around

- Initiation of a project
- Planning for the project execution
- Execution of the project
- Project monitoring and controlling
- Closing a project

The PMBOK is a detailed collection of general processes and best practices... but what's that mean for us as supply chain practitioners?



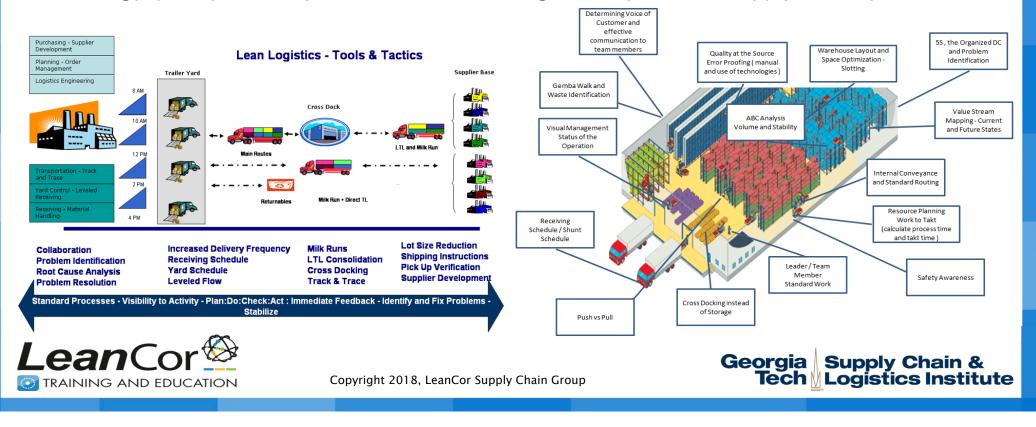




Project Management in the Supply Chain

The PMBOK is a great tool for experienced project managers, but it is a general guide.

Understanding how to apply this methodology to Supply Chain projects requires knowledge of the terminology, principles, and processes used in strategic and operational supply chain operations.



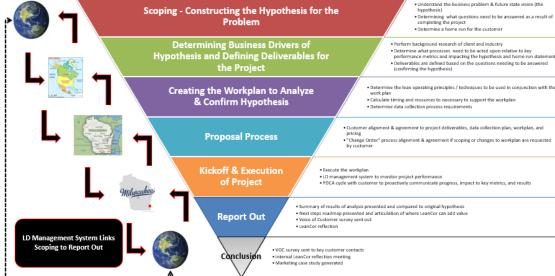
Course Concepts & What's Included

These courses are designed to take the framework established by PMI and convert it into relatable Supply Chain Project Processes.

We will draw on our established Supply Chain project experience, featuring the methodologies and tools used in historical LeanCor customer engagements.

Included in the course:

- Overview of supply chain concepts
- Configuring PMBOK to Supply Chain
- Deep dive into project processes
- Supply Chain project case studies
- Interactive supply chain exercises
- Project plan kit w/applicable Excel tools



LeanCor Project Management Process





Case Study – Warehouse Design

			Customer Centers					
W	farefrouse Design							
Cur	rrent State							
	What is the background and con	itest?						
	· Moving to a larger facility							
	· Manufacturing inside the b	uilding						
	· Garage dock - trans-loading	g material						
	Describe the current challenges.							
	1 - Existing business has moderate growth (instore fixed asset stores - Home Depot, Walmart,							
	Tractor Supply) - business is going to continue to shift direct to consumer (e-commerce) -							
	going to have to be prepared for that shift to take place							
	2 - Internet based product line that still goes to the store not consumer. In the fture they will							
	have to respond to a Lowes website to the consumer. In far future, Chinese shipments from							
	their factory to customer							
	 3 – Manufacturing – process capability for inbound raw material, WIP and Finished Goods 							
	(traditional distribution layout or e-commerce layout environment)							
	 90-95% of products are palletized today. Palletized racking picked down and a single item is pulled? 							
	 Direct shipments from China into receiving, and products that are manufactured 							
	 Challenges – not having a c WMS (placement has comp 	lear FIFO system that they need to divoted EIE(1)	address, do not have a good					
	Harris Processes and could	incated in of						

Project Scoping

	1st Shift (Non-Peak)									
Operational Element	Receiving	Putaway	Full Pallet Picking	Mixed Pallet Picking	E- Commerc e	Replen.	Shipping	Manu. RM Receiving	Manu. RM Replen.	Manu. Fo Putaway
Average Requirements (pallets)	362	362	222	136	142	136	367	9	9	28
Total Available Working Time/Shift	8	8	8	8	8	8	8	8	8	8
Average Processing Time (min)	9	2	2	20	5	5	1	2	5	2
Average Travel Time (min)	0	1	1	4	1	1	0	0	1	2
Productivity (pallets per hour)	7	21	22	3	11	10	38	27	10	17
Optimal Material Handlers / Shift	8	3	2	8	2	2	1	0	0	0
Actual Number of Material Handlers	9	3	2	8	2	2	2		1	
Total Number of Material Handlers	29									

Operational Expenses





Project Planning

Single Deep Selective Racking

Automated Stretch Wrap Turntable

d notal 15 strateb v

tric Single Deep Reach truck

Jack

4 Stage Mast Forklift

Capital Expenses

Bays - 1646 Lanes - 1681

End Rider Electric Pallet Jack used for Proving & Pallet building Mixed Pallet Poking Commerce Picking

Electric Reach Truck

Putaway Full Pallet Picking

All Manufacturing M

Electric Counterbalance Forklifts

ce Work Statio

Least Cost Each

\$6,432

\$3,120

\$6,288

ost Each

\$60

\$18,714

\$1,149

ment 12 will be used and 3 more need to be purchased

Regular - 13 Peak - 1

> Regular - 1 Peak - 0

Regular - 5 Peak - 1 lotal Cost

\$414,480

\$56,142

\$11,490 \$482,112

\$85,760

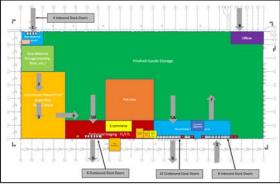
\$3,120

\$33,536

\$122,416

6,908

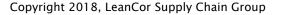
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High Level Layout

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Warehouse Design



Georgia Supply Chain & Tech Logistics Institute

Course Series Concepts

Supply Chain Project Management Series

https://www.scl.gatech.edu/SCPM

Supply Chain Project Management: Fundamentals

June 5-7, 2018

Georgia Tech Savannah Campus Supply Chain Project Management: Vendor Selection & Management

June 12-14, 2018

Georgia Tech Savannah Campus Supply Chain Project Management: Effectively Managing Transformation Projects

June 19–21, 2018

Georgia Tech Savannah Campus



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Thank You! Questions?

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