# LEAN SUPPLY CHAIN MANAGEMENT



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# Introduction

A supply chain rarely fails because one department performs badly. It fails because inventory piles up at a handoff, because a forecast nobody trusts drives purchasing, or because a supplier's lead time is a guess rather than a measured figure. Lean supply chain thinking removes those losses across the whole chain, not inside a single function. This Lean Supply Chain Management Training Course gives supply chain, procurement, and planning professionals a complete working method for that work. Participants learn end-to-end value stream mapping, demand-driven planning, pull replenishment, supplier integration, lead time compression, and the performance routines that hold the gains.

# Lean Supply Chain Management Course Objectives

- Map supply chain value streams from supplier to final customer.
- Identify the seven wastes across planning, sourcing, and distribution.
- Apply demand-driven planning with actual demand signals.
- Design pull replenishment with kanban and vendor managed inventory.
- Calculate lot sizing, safety stock, and reorder points leanly.
- Compress lead time across supply, production, and transport.
- Integrate suppliers with shared data and joint improvement.
- Apply lean principles to warehousing and distribution operations.
- Align contracts and supplier agreements with flow requirements.
- Measure performance with lead time, inventory turns, and service level.

# Course Methodology

- Facilitated sessions built on real supply chain maps, demand data, and supplier records.
- Case workshops on bullwhip effect, stockouts, and excess inventory.
- Value stream mapping and lead time analysis exercises on live flows.

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- Pull system, kanban, and VMI design practice sessions.
- Group exercise on an end-to-end lean supply chain improvement plan.

## Who Should Take This Course

- Supply chain and logistics managers.
- Demand and supply planners.
- Procurement and category managers.
- Inventory and warehouse supervisors.
- Continuous improvement and lean practitioners.
- Operations and distribution analysts.

## Lean Supply Chain Management Course Outlines

## Day 1: Lean Thinking Across the Supply Chain

- Lean principles applied beyond the factory floor.
- End-to-end value stream thinking from supplier to customer.
- The seven wastes in planning, sourcing, and distribution.
- The bullwhip effect and how it multiplies demand variance.
- Value definition by customer segment.
- Lean maturity assessment across the chain.
- Governance for cross-functional improvement.

## Day 2: Demand, Planning, and the Bullwhip Effect

- Demand signal capture and point-of-sale data use.
- Forecasting methods and their limits in lean environments.

- Demand-driven planning and consumption-based replenishment.
- Order batching and its effect on inventory and lead time.
- Collaborative planning with key customers and suppliers.
- S&OP basics and its role in levelling supply.
- Measuring forecast accuracy and planning stability.

## Day 3: Pull Systems, Inventory, and Lead Time

- Push versus pull across the extended supply chain.
- Kanban design for internal and supplier replenishment.
- Vendor managed inventory and consignment stock models.
- Lot sizing, safety stock, and reorder point calculation.
- Inventory classification with ABC and criticality.
- Lead time components and compression techniques.
- Postponement and risk pooling strategies.

## Day 4: Supplier Integration and Logistics Flow

- Supplier segmentation and lean supplier relationships.
- Shared data, visibility platforms, and collaborative portals.
- Supplier development and joint improvement projects.
- Transport consolidation, milk runs, and route design.
- Cross-docking and flow-through distribution.
- Warehouse layout and lean picking design.
- Packaging, unit load, and handling standardisation.

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## Day 5: Performance, Contracts, and Continuous Improvement

- KPIs: lead time, inventory turns, fill rate, and cost to serve.
- Cash-to-cash cycle and working capital impact.
- Aligning contracts and SLAs with flow and flexibility needs.
- Kaizen across the extended supply chain.
- A3 problem solving for supply chain issues.
- Risk management and resilience in a lean chain.
- Building an end-to-end lean supply chain roadmap.

## Conclusion

By successfully completing the Lean Supply Chain Management Training Course, participants will have acquired a working command of lean principles across the extended chain, end-to-end value stream mapping, demand-driven planning and pull replenishment, inventory and lead time reduction, supplier integration, lean logistics flow, and the performance measurement that sustains improvement. They will leave able to find where the chain holds cost in inventory and waiting, remove it without damaging service, and prove the result in cash and service terms. Gentex Training Center delivers this programme with supply chain and lean practitioners working in live operations.

## FAQs for the Lean Supply Chain Management course

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## Q1 What is the "Lean Supply Chain Management" course about?

It is a five-day programme on removing waste across the whole supply chain rather than inside one department. It covers end-to-end value stream mapping, the seven wastes, demand-driven planning, pull systems and kanban, inventory and lead time reduction, supplier integration, and performance measurement.

## Q2 What are the key benefits of the "Lean Supply Chain Management" course?

Participants reduce inventory and working capital without cutting service, dampen demand amplification across the chain, and compress lead time from supplier to customer. They also gain improvement routines that extend to suppliers instead of stopping at the company gate.

## Q3 What skills will I gain from the "Lean Supply Chain Management" course?

You will gain end-to-end value stream mapping and waste identification, demand-driven planning and forecasting management, pull system, kanban, and inventory optimisation, and supplier integration, lean logistics, and performance management.

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## Q4 What tools, methods, or standards are covered in the "Lean Supply Chain Management" course?

The course works with end-to-end value stream mapping, the seven wastes across planning, sourcing and distribution, bullwhip effect analysis, point-of-sale and consumption data capture, forecasting methods and forecast accuracy measurement, demand-driven planning, order batching analysis, collaborative planning and S&OP basics, push versus pull analysis, kanban design for internal and supplier replenishment, vendor managed inventory and consignment stock models, lot sizing, safety stock and reorder point calculation, ABC and criticality inventory classification, lead time component analysis and compression techniques, postponement and risk pooling, supplier segmentation and development, shared data and visibility platforms, transport consolidation and milk runs, cross-docking and flow-through distribution, lean warehouse layout and picking design, packaging and unit load standardisation, cash-to-cash cycle analysis, contract and SLA alignment with flow requirements, kaizen across the extended chain, A3 problem solving, and KPIs covering lead time, inventory turns, fill rate and cost to serve.

## Q5 How is the "Lean Supply Chain Management" course applied in real-world practice?

Teams apply it when mapping a supply chain for a product family, redesigning replenishment after a bullwhip-driven stockout, sizing kanban with a key supplier, consolidating inbound transport into milk runs, renegotiating a supply agreement around flexibility instead of volume, and reviewing inventory turns and fill rate at a monthly S&OP meeting.