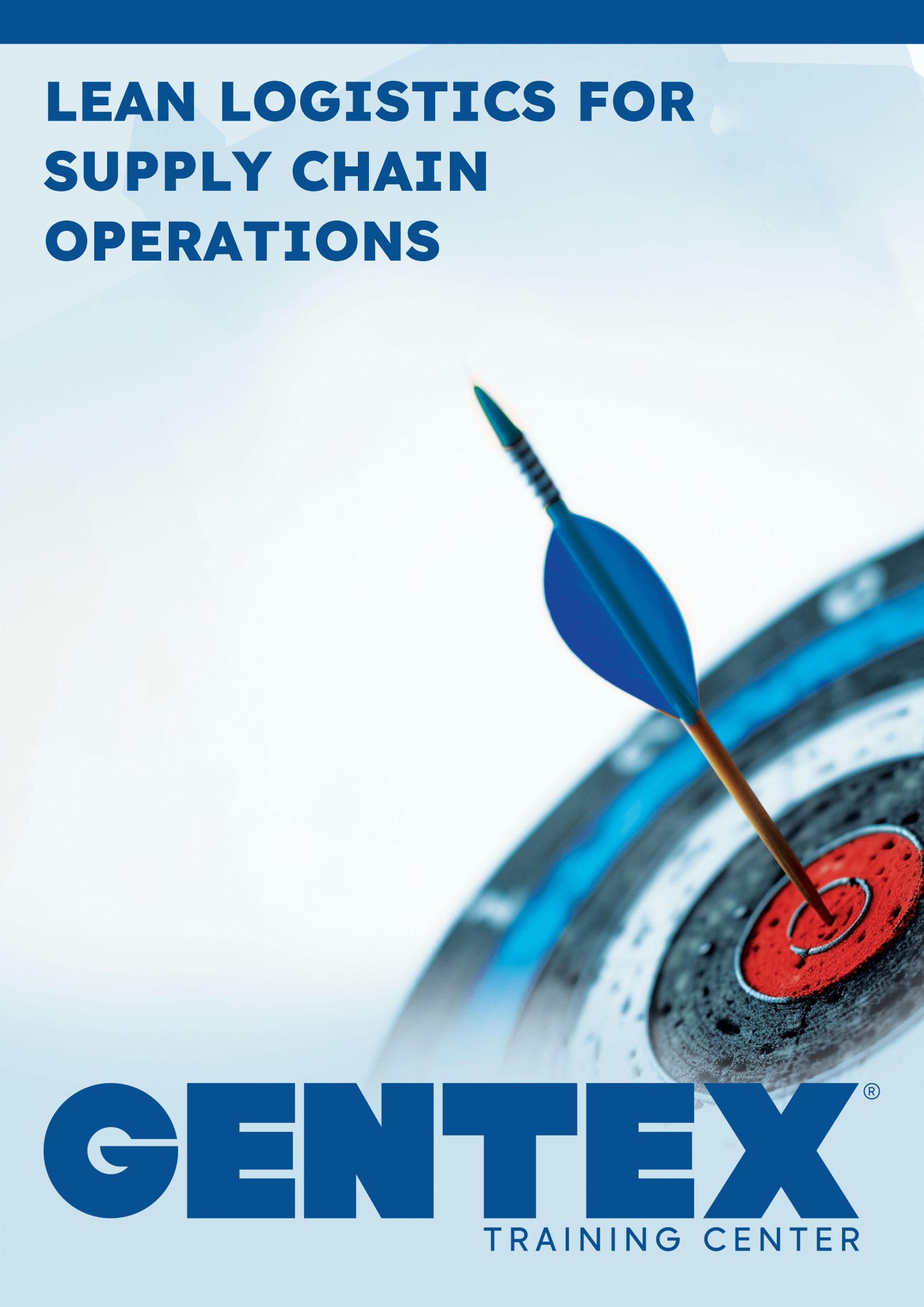
LEAN LOGISTICS FOR SUPPLY CHAIN OPERATIONS



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GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

Introduction

Most supply chain cost hides in activities nobody ordered: goods waiting in a dock queue, stock sitting between process steps, vehicles returning empty, and clerks re-entering data that already exists. Lean logistics exposes and removes that waste without cutting the service the customer actually values. This Lean Logistics for Supply Chain Operations Training Course gives supply chain, warehouse, and transport professionals a practical method for that work. Participants learn value stream mapping, the eight wastes, pull and kanban systems, 5S and standard work, flow and takt analysis, and continuous improvement routines. Furthermore, the course ties lean tools to measurable results in lead time, cost, and space.

Lean Logistics for Supply Chain Operations Course Objectives

- Apply lean principles to logistics and supply chain processes.
- Map value streams and identify non-value-adding steps.
- Recognise and quantify the eight wastes in logistics operations.
- Design pull systems using kanban and supermarket replenishment.
- Calculate takt time, cycle time, and flow requirements.
- Apply 5S and standard work to warehouse and dock operations.
- Reduce changeover, travel, and picking time in material handling.
- Balance workloads with line balancing and workload levelling.
- Apply A3 problem solving and root cause analysis to recurring issues.
- Measure improvement with lead time, productivity, and space utilisation.

Course Methodology

- Facilitated sessions built on real process maps, picking data, and cost reports.

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- Waste walks and value stream mapping workshops on live operations.
- Kanban sizing and takt calculation exercises with demand data.
- 5S and standard work simulation in a warehouse setting.
- Group exercise on an A3 improvement project with measurable targets.

Who Should Take This Course

- Supply chain and logistics managers.
- Warehouse and distribution centre supervisors.
- Transport and fleet operations staff.
- Continuous improvement and lean practitioners.
- Production planning and materials staff.
- Operations analysts and industrial engineers.

Lean Logistics for Supply Chain Operations Course Outlines

Day 1: Lean Thinking in Logistics

- Origins of lean and the Toyota Production System.
- Value definition from the customer's standpoint.
- The eight wastes applied to logistics and warehousing.
- Value stream mapping symbols and current state mapping.
- Flow, pull, and perfection as system principles.
- Lean versus traditional efficiency thinking in logistics.
- Selecting improvement areas by impact and feasibility.

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Day 2: Waste Identification and Value Stream Analysis

- Gemba walks and waste observation techniques.
- Process mapping with swimlanes and spaghetti diagrams.
- Spaghetti diagram analysis for travel and handling waste.
- Data collection: cycle time, wait time, and travel distance.
- Future state mapping and gap definition.
- Cost of waste calculation and business case building.
- Prioritising countermeasures with impact and effort matrix.

Day 3: Pull Systems, Kanban, and Inventory Flow

- Push versus pull and the case for demand-driven replenishment.
- Kanban types: production, withdrawal, and supplier kanban.
- Kanban sizing calculation with demand and lead time.
- Supermarket design and two-bin systems.
- Takt time, cycle time, and line balancing basics.
- Buffer and safety stock in a lean flow.
- Milk-run routes and consolidated inbound delivery.

Day 4: Workplace Organisation and Standard Work

- 5S implementation in warehouse and dock areas.
- Visual management, floor marking, and signage.
- Standard work instructions and takt-based staffing.
- Changeover reduction in material handling and packing.
- Error-proofing (poka-yoke) in picking and dispatch.

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- SMED thinking applied to loading and dispatch windows.
- Layout improvement for flow and travel reduction.

Day 5: Continuous Improvement and Measurement

- Daily management, tiered meetings, and visual boards.
- A3 problem solving and root cause analysis methods.
- Kaizen events: planning, execution, and follow-up.
- KPIs: lead time, lines picked per hour, and space utilisation.
- Cost-to-serve analysis and improvement tracking.
- Sustaining gains and standardising improvements.
- Building a lean logistics roadmap with phased targets.

Conclusion

By successfully completing the Lean Logistics for Supply Chain Operations Training Course, participants will have acquired a working command of lean principles applied to logistics, value stream mapping and waste identification, pull systems with kanban sizing, 5S and standard work in warehouse operations, continuous improvement practice with A3 problem solving, and improvement measurement. They will leave able to cut lead time and handling cost without lowering service, and to sustain the gains through standard work and daily management. Gentex Training Center delivers this programme with lean and logistics practitioners working on live operations.

FAQs for the Lean Logistics for Supply Chain Operations course

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Q1 What is the "Lean Logistics for Supply Chain Operations" course about?

It is a five-day programme on removing waste from logistics and supply chain processes while protecting service. It covers lean principles, value stream mapping, the eight wastes, pull and kanban systems, 5S and standard work, continuous improvement, and improvement measurement.

Q2 What are the key benefits of the "Lean Logistics for Supply Chain Operations" course?

Participants shorten lead time and cut handling and space cost by removing steps the customer never paid for, hold less inventory through demand-driven replenishment instead of forecast guessing, and sustain improvements with standard work and daily management rather than one-off projects.

Q3 What skills will I gain from the "Lean Logistics for Supply Chain Operations" course?

You will gain lean principles and value stream mapping application, waste identification and elimination, pull system and kanban design with flow analysis, and 5S, standard work, and continuous improvement management.

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Q4 What tools, methods, or standards are covered in the "Lean Logistics for Supply Chain Operations" course?

The course works with the Toyota Production System and lean principles, the eight wastes analysis, value stream mapping symbols and current state mapping, Gemba walks, swimlane process mapping and spaghetti diagrams, cycle time, wait time and travel distance data collection, future state mapping, impact and effort prioritisation matrices, push versus pull analysis, kanban types covering production, withdrawal and supplier kanban, kanban sizing calculation, supermarket and two-bin system design, takt time, cycle time and line balancing, milk-run route design, 5S implementation, visual management and floor marking, standard work instructions, poka-yoke error-proofing, SMED thinking for dispatch windows, A3 problem solving and root cause analysis, kaizen event facilitation, daily management and tiered meetings, cost-to-serve analysis, and KPIs covering lead time, lines picked per hour and space utilisation.

Q5 How is the "Lean Logistics for Supply Chain Operations" course applied in real-world practice?

Teams apply it when redesigning a warehouse picking route, sizing a kanban loop with a supplier, running a 5S and standard work pilot on a loading dock, shortening a dispatch changeover window, and leading an A3 project on a recurring picking error.