ADVANCED SUPPLY CHAIN MANAGEMENT



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Introduction

A supply chain succeeds when demand, supply, production, logistics, and inventory move as one system rather than five separate agendas. When they drift apart, the costs appear in expedited freight, excess stock, missed deliveries, and idle capacity. This Advanced Supply Chain Management Training Course gives supply chain managers, planners, and operations professionals a complete method for designing, planning, and controlling that system. Participants learn network design, integrated planning, sales and operations planning, sourcing coordination, inventory policy, logistics, and risk management. Furthermore, the course connects supply chain decisions to cost, cash, service, and resilience outcomes.

Advanced Supply Chain Management Course Objectives

- Apply supply chain strategy and align it with business and customer requirements.
- Design supply networks using total cost and service level analysis.
- Build integrated planning across demand, supply, production, and distribution.
- Run the sales and operations planning cycle with clear governance.
- Plan capacity, long-lead items, and constraints across the network.
- Apply inventory policy logic with ABC and XYZ classification and service targets.
- Coordinate sourcing, supplier performance, and contract obligations.
- Manage logistics: mode selection, freight control, and customs coordination.
- Control supply chain risk: disruption, single source, and currency exposure.
- Measure performance with cost to serve, delivery reliability, and cash cycle indicators.

Course Methodology

- Facilitated sessions built on real planning data, network records, and supplier files.

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- Case workshops on demand shocks, supply disruption, and service failures.
- Spreadsheet drills on total cost, safety stock, and cash cycle calculation.
- Integrated planning and inventory policy exercises for live categories.
- Group exercise on a supply chain improvement plan with measurable targets.

Who Should Take This Course

- Supply chain and operations managers.
- Demand, supply, and production planners.
- Inventory and distribution managers.
- Procurement and category managers coordinating supply.
- Logistics and warehouse supervisors.
- Finance and audit staff reviewing supply chain cost and working capital.

Advanced Supply Chain Management Course Outlines

Day 1: Supply Chain Strategy and Network Design

- Supply chain operations reference model and its five processes.
- Strategy alignment with customer value and competitive priorities.
- Network design: facilities, locations, and service coverage.
- Total cost to serve and cost driver analysis.
- Centralised versus decentralised distribution decisions.
- Outsourcing, 3PL, and make-or-buy evaluation.
- Supply chain maturity assessment and improvement priorities.

Day 2: Demand, Supply, and Integrated Planning

- Demand planning and forecast accuracy measurement.
- Supply planning under capacity and material constraints.
- Sales and operations planning cycle and meeting governance.
- Master scheduling and rough-cut capacity planning.
- Long-lead item planning and early commitment.
- Plan stability, revisions, and change control discipline.
- Scenario planning for demand and supply shocks.

Day 3: Sourcing, Suppliers, and Inventory Policy

- Category segmentation and sourcing strategy selection.
- Supplier qualification, performance measurement, and development.
- Contract structures and service level agreements.
- ABC and XYZ classification for control levels.
- Economic order quantity, safety stock, and reorder point setting.
- Multi-echelon inventory and distribution requirements planning.
- Obsolescence, surplus, and slow-moving stock control.

Day 4: Logistics, Distribution, and Order Fulfilment

- Inbound, internal, and outbound flow planning.
- Mode selection, consolidation, and carrier management.
- Incoterms 2020 and customs documentation in cross-border flows.
- Warehouse operations and order fulfilment cycle design.
- Perfect order measurement and delivery reliability improvement.
- Freight cost control and invoice auditing.
- Returns, reverse logistics, and after-sales flows.

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Day 5: Risk, Technology, and Performance Management

- Supply chain risk register and mitigation planning.
- Resilience: alternate sources, buffer strategies, and continuity plans.
- Sustainability and ethical supply chain requirements.
- Technology: ERP, WMS, TMS, planning systems, and analytics.
- KPIs: cost to serve, order accuracy, delivery reliability, and cash-to-cash cycle.
- Reporting to management and executive review.
- Building a multi-year supply chain improvement roadmap.

Conclusion

By successfully completing the Advanced Supply Chain Management Training Course, participants will have acquired a thorough working knowledge of supply chain strategy and network design, integrated demand and supply planning, sourcing and supplier coordination, inventory policy setting, logistics and order fulfilment, risk management, and performance measurement. They will leave able to run a chain that delivers reliably at a cost the business can carry, and to explain supply chain performance in financial terms. Gentex Training Center delivers this programme with supply chain practitioners who manage these operations in live organisations.

FAQs for the Advanced Supply Chain Management course

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Q1 What is the "Advanced Supply Chain Management" course about?

It is a five-day programme on designing, planning, and controlling a supply chain as one system. It covers network design, integrated planning, sales and operations planning, sourcing coordination, inventory policy, logistics, risk management, and performance measurement.

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

Participants cut expedited freight and excess stock, improve delivery reliability, and reduce service failures caused by disconnected planning. They also gain one consistent set of cost, service, and cash measures that shows management where the chain is working and where it is not.

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

You will gain supply chain strategy and network design, integrated demand and supply planning, sourcing coordination and inventory policy setting, and logistics, risk, and supply chain performance management.

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

The course works with the supply chain operations reference model, total cost to serve analysis, network design and facility location evaluation, centralised versus decentralised distribution modelling, 3PL and make-or-buy assessment, forecast accuracy measurement, sales and operations planning cycle governance, master scheduling and rough-cut capacity planning, long-lead item planning, category segmentation and sourcing strategy selection, supplier scorecards and service level agreements, ABC and XYZ classification, economic order quantity and safety stock models, reorder point systems, multi-echelon inventory and distribution requirements planning, mode selection and freight invoice audit, Incoterms 2020 and customs documentation, perfect order measurement, risk registers and continuity planning, ERP, WMS, TMS and planning analytics, and KPIs including cost to serve, delivery reliability and cash-to-cash cycle.

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

Teams apply it when reviewing a distribution network, running the monthly S&OP cycle, setting safety stock after a demand shift, selecting a carrier for a new lane, planning a supplier continuity strategy, and presenting supply chain performance to the executive team.