



Consulting and Training | Reach New Heights

Course Name

Supply Chain Network Design and Optimization

Sector Name

Procurement & Supply Chain Operations

Document Type

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Supply Chain Network Design and Optimization

Course Introduction

This training is designed by Boost to equip supply chain and logistics professionals with advanced knowledge and tools for designing and optimizing supply chain networks. As businesses expand globally and customer expectations for speed, cost-efficiency, and sustainability rise, network design becomes a critical enabler of strategic advantage. Well-structured networks improve responsiveness, minimize costs, and enhance resilience against disruptions.

Participants will explore frameworks for location and capacity planning, network modeling, optimization algorithms, and digital simulation tools. The program also emphasizes sustainability, risk management, and integration of advanced analytics to ensure networks remain adaptable in uncertain environments. Case studies and group exercises will help participants translate theory into practical network design strategies.

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Supply Chain Network Design and Optimization

Target Audience

- ✓ Supply Chain and Logistics Managers
- ✓ Operations and Distribution Leaders
- ✓ Procurement and Sourcing Professionals
- ✓ Business Analysts and Network Planners
- ✓ Consultants in Supply Chain Optimization

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Learning Objectives

- ✓ Understand the principles of network design and optimization
- ✓ Apply modeling and simulation techniques to evaluate supply chain scenarios
- ✓ Optimize warehouse, plant, and distribution center locations
- ✓ Balance cost, service levels, and sustainability in network design
- ✓ Develop resilient and future-ready supply chain networks

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Supply Chain Network Design and Optimization

Course Outline

✓ Day 01

Fundamentals of Network Design

Introduction to Supply Chain Network Design

- ✓ Strategic importance of network design in global supply chains
- ✓ Cost vs. service trade-offs in network decisions
- ✓ Key drivers of network design (demand, supply, costs, risk)

Types of Supply Chain Networks

- ✓ Centralized vs. decentralized networks
- ✓ Multi-echelon distribution systems
- ✓ Case studies of global network strategies

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Course Outline

✓ Day 02

Data, Modeling, and Tools for Network Design

Data Requirements for Network Modeling

- ✓ Demand data, transportation costs, and capacity constraints
- ✓ Managing data complexity across global supply chains
- ✓ Data visualization for network analysis

Modeling and Simulation Tools

- ✓ Linear and mixed-integer programming models
- ✓ Simulation tools for scenario testing
- ✓ Digital twins for network planning and optimization

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Course Outline

✓ Day 03

Location and Capacity Optimization

Facility Location Decisions

- ✓ Factors influencing site selection for plants and warehouses
- ✓ Location-allocation modeling techniques
- ✓ Balancing near-shoring, offshoring, and regional distribution

Capacity Planning and Allocation

- ✓ Matching supply capacity with demand variability
- ✓ Flexible and scalable capacity strategies
- ✓ Cost and service implications of capacity choices

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Course Outline

✓ Day 04

Transportation and Global Trade Considerations

Transportation Network Optimization

- ✓ Route planning and modal selection
- ✓ Multi-modal transportation strategies
- ✓ Evaluating trade-offs between speed, cost, and emissions

Global Supply Chain and Trade Flows

- ✓ Designing networks for cross-border trade
- ✓ Customs, tariffs, and regulatory considerations
- ✓ Leveraging free-trade zones and bonded warehouses

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Course Outline

✓ Day 05

Resilience and Risk Management in Network Design

- ✓ Stress-testing networks against disruptions
- ✓ Strategies for redundancy and agility
- ✓ Managing geopolitical and environmental risks

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 18, 2027	Jan. 22, 2027	5 days	4250.00 \$	UAE , Dubai
May 3, 2027	May 7, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 23, 2027	Aug. 27, 2027	5 days	5950.00 \$	switzerland , Geneva
Dec. 6, 2026	Dec. 10, 2026	5 days	4250.00 \$	KSA , Jeddah

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