

ADVANCED LOGISTICS & TRANSPORT PLANNING

“Optimizing Logistics Networks and Transport Systems for Efficiency, Resilience & Strategic Growth”

Schedule

Date	Venue	Fees (Face-to-Face)
15 - 19 Feb 2026	Muscat, Oman	USD 3,495 per delegate
09 - 13 Aug 2026	Doha, Qatar	USD 3,495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

In today’s highly competitive and interconnected supply chains, logistics and transport planning have evolved into strategic functions that directly impact service quality, operational costs, and business resilience. Companies must now design agile, integrated, and sustainable logistics systems to stay ahead of disruptions, regulatory changes, and rising customer expectations.

This advanced five-day training program equips logistics and supply chain professionals with the tools, techniques, and frameworks required to analyze, design, and optimize logistics and transport operations. From route planning and mode selection to fleet management and network modeling, the course provides deep insights into achieving cost-effective, data-driven transport solutions.

Objectives

- By the end of this course, participants will be able to:
- Analyze and optimize logistics networks for cost, speed, and reliability
 - Plan transport operations using routing, scheduling, and capacity tools
 - Evaluate multimodal transport options and sustainability impacts
 - Implement advanced fleet and freight management strategies
 - Integrate digital technologies into logistics and transport planning

Why Attend

- Strengthen decision-making in fleet operations, warehousing, and delivery networks
- Improve transport efficiency while reducing fuel, time, and inventory costs
- Gain expertise in designing transport models that adapt to dynamic business needs
- Learn to manage logistics risks, including disruptions, delays, and regulatory compliance
- Apply analytics and digital tools to drive continuous improvement

Target Audience

This program is designed for:

- Logistics and transport planners
- Supply chain and distribution managers
- Fleet operations and transport supervisors
- Procurement and warehousing professionals
- Freight forwarders, 3PL/4PL professionals, and government planners

Individual Benefits

Key competencies that will be developed include:

- Logistics network design and transport mode selection
- Routing, scheduling, and load optimization techniques
- Cost control in fleet, fuel, and third-party logistics
- Application of TMS (transport management systems) and KPIs
- Environmental impact analysis and green logistics practices

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced logistics and transportation costs
- Faster and more reliable deliveries and service levels
- Enhanced supply chain visibility and responsiveness
- More strategic relationships with carriers and logistics providers
- Integration of sustainability and compliance into transport planning

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Best practices in global logistics and transport design
- Case Studies - Real-world examples from manufacturing, retail, and government sectors
- Workshops - Network mapping, route optimization, and TMS applications
- Peer Exchange - Group discussions on logistics challenges and innovations
- Tools - Templates for transport planning models, performance dashboards, and fleet cost calculators

Course Outline

Detailed 5-Day Course Outline

Training Hours: 07:30 AM – 3:30 PM **Daily Format:** 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

• Day 1: Strategic Logistics Network Design

- Module 1: Logistics Trends and Strategic Objectives (07:30 – 09:30) • Global logistics shifts and key challenges • KPIs and strategic alignment
- Module 2: Logistics Network Mapping and Analysis (09:45 – 11:15) • Nodes, flows, and demand centers • Centralized vs decentralized design
- Module 3: Workshop – Design a Basic Logistics Network (11:30 – 01:00)
- Module 4: Cost Drivers and Network Optimization (02:00 – 03:30)

Day 2: Advanced Transport Planning and Routing

- Module 1: Route Planning and Scheduling Fundamentals (07:30 – 09:30) • Time, distance, load, and delivery window optimization
- Module 2: Transport Mode Selection (09:45 – 11:15) • Road, rail, air, sea – cost-benefit analysis
- Module 3: Workshop – Develop a Route Plan Using Real Data (11:30 – 01:00)
- Module 4: Load Planning and Consolidation Strategies (02:00 – 03:30)

Day 3: Fleet Management & Third-Party Logistics

- Module 1: Fleet Sizing and Lifecycle Management (07:30 – 09:30) • In-house vs outsourced, vehicle utilization
- Module 2: TMS and Freight Auditing Systems (09:45 – 11:15) • Transport Management Systems overview and integration
- Module 3: Managing 3PLs and Carrier Relationships (11:30 – 01:00) • SLAs, KPIs, and compliance
- Module 4: Workshop – Evaluate Fleet and 3PL Scenarios (02:00 – 03:30)

Day 4: Digitalization, Risk & Regulatory Compliance

- Module 1: Digital Tools for Transport Optimization (07:30 – 09:30) • GPS, telematics, IoT, predictive analytics
- Module 2: Risk Management in Transport Planning (09:45 – 11:15) • Delays, breakdowns, safety incidents, and cross-border risks
- Module 3: Environmental & Regulatory Considerations (11:30 – 01:00) • Emissions, carbon reporting, and regional transport laws
- Module 4: Workshop – Build a Risk-Mitigation Transport Plan (02:00 – 03:30)

Day 5: Strategic Logistics Planning and Continuous Improvement

- Module 1: Transport Strategy and Future Readiness (07:30 – 09:30) • Agile logistics, EV fleets, and autonomous systems
- Module 2: Performance Management and Dashboards (09:45 – 11:15) • Delivery performance, OTIF, cost per km, utilization
- Module 3: Capstone Workshop – Integrated Logistics Plan (11:30 – 01:00)
- Module 4: Certification and Wrap-Up (02:00 – 03:30)

Certification

Participants will receive a Certificate of Completion in Advanced Logistics & Transport Planning, confirming their expertise in building efficient, scalable, and sustainable logistics and transport operations aligned with organizational strategy.

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