Transportation Management Systems (TMS) Training Course

Professional Development Training Course Outline

Category	Logistics and Supply Chain Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Transportation Management Systems (TMS) Training Course provides comprehensive insights into modern logistics and supply chain optimization using advanced digital solutions. Designed for logistics professionals, supply chain managers, and operations personnel, this course emphasizes the strategic role of TMS in enhancing efficiency, reducing operational costs, and improving customer satisfaction. Participants will gain a deep understanding of transportation planning, route optimization, freight management, real-time tracking, and analytics-driven decision-making. By integrating trending industry practices, emerging technologies, and case-based learning, the course ensures learners acquire practical skills applicable in diverse organizational contexts.

TMS is critical in today's fast-paced supply chain environment, enabling organizations to manage transportation workflows, automate scheduling, and improve operational visibility. This course covers key topics such as carrier selection, freight audit, compliance management, and performance analytics. Participants will also explore the role of data-driven strategies, digital dashboards, and predictive modeling in driving smarter transportation decisions. By the end of the course, learners will be equipped to implement TMS effectively, optimize transportation costs, and strengthen overall supply chain resilience.

Programme Curriculum

Transportation Management Systems (TMS) Training Course

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Course Objectives

1. Understand the fundamentals of Transportation Management Systems and their role in logistics operations.
2. Analyze transportation workflows to optimize routing and scheduling.
3. Implement digital solutions for freight management and carrier selection.
4. Enhance operational visibility using real-time tracking and data analytics.
5. Apply predictive analytics for transportation planning and cost reduction.
6. Integrate TMS with enterprise resource planning (ERP) systems for seamless operations.
7. Develop strategies to improve freight audit and compliance management.
8. Evaluate performance metrics and KPIs to monitor transportation efficiency.
9. Apply industry best practices for TMS deployment in complex supply chains.
10. Mitigate risks associated with transportation disruptions and delays.
11. Enhance customer satisfaction through efficient order fulfillment and delivery.
12. Incorporate sustainability practices and green logistics in TMS strategies.
13. Use case studies to develop problem-solving and decision-making skills in transportation management.

Organizational Benefits

- Streamlined transportation processes and reduced operational costs
- Enhanced supply chain visibility and transparency
- Improved customer service and on-time delivery
- Efficient resource allocation and fleet management
- Reduced manual errors through automation
- Data-driven decision-making and performance monitoring
- Optimized routing and reduced fuel consumption
- Compliance with regulatory standards and safety protocols
- Better collaboration with carriers and vendors
- Increased overall supply chain resilience

Target Audiences

1. Logistics and supply chain managers

2. Transportation planners and coordinators
3. Fleet management personnel
4. Operations managers
5. Freight brokers and carriers
6. Supply chain analysts
7. IT professionals implementing TMS solutions
8. Business process consultants in logistics

Course Duration: 5 days

Course Modules

Module 1: Introduction to Transportation Management Systems

- Overview of TMS in logistics operations
- Key components and functionalities
- Benefits for organizations and supply chain integration
- Emerging trends in TMS technology
- Case study: Successful TMS implementation in a global logistics company
- Hands-on TMS demonstration

Module 2: Transportation Planning and Optimization

- Route planning techniques and tools
- Scheduling and load optimization
- Cost-benefit analysis of routing decisions
- Handling exceptions and delays
- Case study: Optimizing urban delivery routes
- Practical exercise: Creating optimized transport plans

Module 3: Carrier Selection and Freight Management

- Selecting the right carriers and service providers
- Contract negotiation and rate analysis
- Freight cost management and audit processes
- Risk assessment and mitigation
- Case study: Carrier selection in e-commerce logistics
- Simulation exercise: Freight cost calculation

Module 4: Real-Time Tracking and Visibility

- Implementing GPS and IoT solutions
- Monitoring shipments in transit

- Alerts and notifications for exceptions
- Dashboard configuration and reporting
- Case study: Real-time shipment tracking for retail supply chain
- Hands-on activity: Setting up tracking dashboards

Module 5: Performance Analytics and KPIs

- Key performance indicators in transportation
- Metrics for cost, efficiency, and service quality
- Reporting and dashboard creation
- Benchmarking and continuous improvement
- Case study: KPI-driven TMS improvement
- Practical exercise: Analyzing transportation KPIs

Module 6: Compliance and Risk Management

- Regulatory requirements in transportation
- Safety standards and protocols
- Risk assessment and mitigation strategies
- Compliance audit processes
- Case study: Managing compliance in international shipping
- Workshop: Risk scenario analysis

Module 7: Integration with ERP and Digital Tools

- Connecting TMS with ERP systems
- Data flow and system interoperability
- Automation of routine tasks
- Benefits of integrated digital systems
- Case study: ERP-TMS integration for a manufacturing company
- Exercise: Mapping integration workflows

Module 8: Sustainability and Green Logistics

- Eco-friendly transportation practices
- Reducing carbon footprint and fuel usage
- Sustainability metrics and reporting
- Green supply chain strategies
- Case study: Implementing green logistics in last-mile delivery
- Activity: Developing sustainable transport initiatives

Training Methodology

- Interactive lectures and multimedia presentations
- Hands-on exercises with TMS software
- Case study analysis for real-world application
- Group discussions and problem-solving workshops
- Simulations for transportation planning and routing
- Role-playing exercises for freight management and compliance

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

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