





Multimodal Transportation Systems

No of Sessions- 30 hours course || 20 Sessions

Target Audience- Mid Level managers and frontline executives

Introduction

The unprecedented modernization and expansion of Multimodal Transportation Systems will require substantial new knowledge and understanding of field-deployable technologies. The course aims to provide mid-level managers and frontline executives insights into modern concepts and management of Multimodal Transportation Systems. The course promotes the exchange of the latest scientific and technological innovations in Multimodal Transportation Systems, and to advance the state-of-the-art management and practices for various types of Multimodal based transportation systems.

Objectives-

- To help professionals to streamline decision-making to minimize errors that can lead to longer transit times, increased costs of transit, unnecessary inventory carrying costs, fines for noncompliance, and increased handling and damage
- To help professionals to understand the safety and sustainability aspects of multimodal transportation system

Pre-Requisite: Basic understanding about Multimodal Transportation Systems

Pedagogy/Teaching Method: Lectures, Case Studies, Field visits and Group exercises and Discussion in the class

Reference Materials:

- Claus Hyldager; Ceo, Nisomar. Logistics And Multi-Modal Transport: Isbn: 978-1 908833-61-7. (Recent edition)
- Slim Hammad. Multimodal Transport Systems. Wiley publication (Recent edition)

Session Plan:

Title	Topics	Videos	Reading Material / Case Study
Introduction	Concept of Multi-Modal	Video 1- Transportation	Case 1: Transport
to Multi-	Transport, Multi model	Planning: The Role of	Corporation of India
Modal	network and	Transportation Systems in	(A): The Cross-selling
Transport	transportation and multi	Social and Economic Life.	Conundrum. By: V.G.
	modes transport planning.	Video 2- Intermodal	Narayanan; Saloni
	Rail, Road, Air, Ship and	Transportation Supply Chain	Chaturvedi (HBR
	container transportation	Manufacturing Principles	Case).
	Continue transportanton	video 3- what is intermodal	
		freight transport? what does	Case 2: Highly
		intermodal freight transport	Confident
		mean?	Transportation:
Parking and	Parking and cargo	video-1: what is	Dynamics of IT
cargo	management of train, truck	containerization?	Application in Supply
Management	and container. Design,	video 2: how container ports	Chain Management.
Wianagement	network and space	work: logistics of intermodal	By: Isabella Chan;
	utilization during	transport	james Lin;
	container and cargo	transport	Benjamin Yen (HBR
	management and vehicle		Case).
	_		Case).
Financial and	scheduling		
	Documentation and		
costing in	Custom Procedures.		
multimodal	Costing & Pricing of		
transportation	Multimodal Transport		
system	Services		
Logistics &	Transportation	Video 1: Supply Chain &	
Sustainable	Sustainability, Dangerous	Logistics Management	
Supply Chain	good transportation risk	Transportation: Network and	
Management	and safety	Decision AKTU Digital	
		Education	

Role of IT in	Intelligent Transportation	Video 1: Information	
Transportation	Systems	Technology in Logistics	
systems	•	37 C	

Learning outcomes:

- Understand and capitalize on the comparative efficiencies of various modes of transportation and the procedures and documentation required for each
- Streamline the process of getting products to market, optimizing the secondary transportation services that complement intra-modal and inter-modal supply chain operations.
- Optimize the use of specialized intermediaries (freight forwarders, transportation brokers, customs brokers), knowing when to use them, how to evaluate their cost and quality and learn ways to minimize the time spent coordinating their services.
- Apply operational insight to negotiate more effectively and confidently with all stakeholder groups.
- Reduce or avoid personal and corporate exposure to fines, seizure of goods, environmental
 damage and criminal charges by recognizing relevant safety standards and transportation
 legislation, including the Transportation of hazardous materials.