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Logistics (Transportation - Distribution)

Introduction to contemporary Supply Chain Management (SCM) principles. Supply Chain performance management – key drivers and metrics. Supply Chain network design and planning. The facility location problem. The capacity allocation problem. Demand forecasting. Time series forecasting. Measures of forecast Error. Inventory management. Statistical Inventory Control – deterministic and stochastic inventory models. The role of transportation in the supply chain. Vehicle routing & scheduling. Distribution Channels & processes. Purchasing decisions in SCM. Third Party logistics. The role of Information technology in SCM. Traceability (Bar Codes – Radio Frequency Identification principles and applications. Sustainability and the Supply Chain, Logistics 4.0: The future of logistics.