

SNS COLLEGE OF ENGINEERING



Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

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DEPARTMENT OF MANAGEMENT STUDIES

SUBJECT NAME & CODE: 23BAT348 - AIR CARGO MANAGEMENT

YEAR/ SEMESTER: II MBA / III SEMSTER

UNIT 1: INTRODUCTION TO AIR CARGO MANAGEMENT

Topic: Introduction to Cargo History





Ancient Trade Routes (Pre-500 CE)

Imagine a silk merchant in ancient China in 200 BCE, loading silk onto camels to travel the Silk Road.

His cargo would take months to reach Europe, traveling across deserts, mountains, and rivers, relying on animal power and the networks of small trading posts









- Human Porters and Animals
- Development of Ancient Trade Routes
- Waterways

- > Slow transportation speeds due to reliance on human and animal power.
- Vulnerability to theft, natural disasters, and breakdowns.
- Limited by the terrain; deserts, mountains, and seas posed significant challenges.

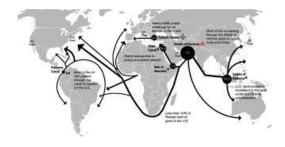




Medieval Period (500–1500 CE)

A Venetian trader in the 1200s might load a ship with spices from India. The ship would navigate through the Indian Ocean, around the Arabian Peninsula, and up the Mediterranean Sea to reach Europe.









- Maritime Expansion
- New Trade Hubs
- ➤ The Role of Guilds and Trade Networks

- Weather and piracy remained significant risks.
- Limited navigation technology often led to lost cargo or shipwrecks.
- ➤ Long voyages meant goods like food and spices could spoil en route.





The Age of Exploration (1500–1800 CE): Global Expansion

A Spanish galleon in the 1600s carries silver from the Americas to Spain. Along the way, it passes through the Caribbean and the Atlantic Ocean, bringing back exotic goods like tobacco, sugar, and precious metals.









- Global Maritime Trade
- Colonial Empires
- Navigation Advances

- Long travel times and unpredictable weather.
- European colonial powers engaged in wars over control of trade routes, leading to dangerous seas.
- The exploitation of indigenous peoples and slaves for resource extraction and labor became a dark part of the global trade network.

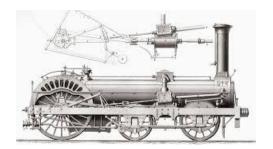


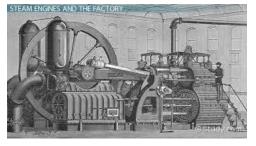


Industrial Revolution (1800–1900): Mechanization and Railways

In 1850, a British textile mill owner exports finished cotton to the United States using a steam-powered ship. The cargo reaches the port in New York, and from there, it's loaded onto a train that travels across the country to new markets in the Midwest.











- Steam Power
- The Rise of Railways
- Mass Production and Specialization

- Infrastructure development was costly and slow.
- > Steam engines required coal, creating logistical challenges in fueling.
- Early railway networks were not always well-integrated, requiring multiple transfers for goods.

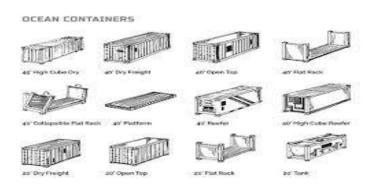




20th Century: Globalization and Containerization

A Japanese electronics manufacturer ships televisions to the United States in the 1960s. The goods are packed into standardized shipping containers, loaded onto a container ship, and moved efficiently between ports using cranes. Upon arrival in the U.S., the containers are moved onto trucks and railways for quick distribution.









- Containerization
- Air Cargo
- Globalization
- Supply Chain Integration

- The global supply chain became more complex, and disruptions like strikes or wars could impact entire industries.
- Environmental concerns around air and sea pollution began to arise.
- Developing countries faced barriers in participating in the global economy.





Modern Logistics (21st Century): Automation and Sustainability

In 2024, an e-commerce company in China ships consumer electronics to customers in Europe. An automated warehouse uses robots to pack orders, which are then sent by drones to a nearby fulfillment center. From there, electric trucks deliver the goods to a high-speed train, which transports them to a European distribution center, where they're delivered by autonomous vehicles.









- Automation and Robotics
- Big Data and AI
- Sustainability
- Just-in-Time and Lean Logistics

- The complexity of global supply chains makes them vulnerable to disruptions (e.g., pandemics, political instability).
- Environmental concerns and the need for greener logistics are pushing companies to innovate, but solutions can be costly.
- > Cybersecurity risks with increased reliance on technology.



RECAP

QUESTIONS???

THANK YOU

