

# School of Business

MBA  
ETE - May 2023

Time : 3 Hours

Marks : 50

## Sem IV - MSB22T2006 - Air Cargo and Shipping LoGistics Management

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

1. How can companies ensure the security and integrity of their digital supply chain? K2 CO1 (2)
2. What are the different types of air cargo and how are they classified? Provide examples. K2 CO2 (2)
3. Categorize the documentation process involved in air cargo operations and the importance of accurate documentation. K4 CO3 (2)
4. Explain the role of air cargo security measures in ensuring the safety of the aircraft, crew, and cargo. K4 CO4 (2)
5. Outline the given below Cargo carrying equipment:- K4 CO5 (2)
  1. Pallets
  2. Containers
  3. Dollies
  4. Forklifts
  5. Conveyor belts
  6. Lift trucks
6. Describe the role and significance of Indian ports in the country's economy and global trade. Discuss the key features and characteristics of major Indian ports, including their infrastructure, capacity, and connectivity to other transportation networks K4 CO1 (5)
7. Examine the concept and importance of Dangerous Goods Regulations (DGR) in the transportation of hazardous materials by air. Discuss the key features and requirements of DGR, including classification, packaging, labeling, and documentation. Analyze the challenges and opportunities facing the implementation and enforcement of DGR, such as the complexity of regulations, the need for specialized training and expertise, and the coordination of international standards. K4 CO2 (5)
8. Analyze the history, construction, and operation of the Panama Canal, including its economic and strategic significance for global trade. Discuss the impact of the Canal's expansion project, including the new locks and increased capacity for larger vessels, on shipping and logistics operations in the Americas and beyond. Finally, describe the potential risks and opportunities associated with the use of the Panama Canal for cargo transport, including the impact of changing trade patterns, geopolitical factors, and emerging technologies on the Canal's role in international transportation. K5 CO3 (6)
9. Describe the different types of cargo transported by air, including their characteristics and requirements for transportation. Provide examples of each type of cargo and discuss the unique challenges and opportunities associated with transporting them by air. Finally, explain the role of air cargo logistics operators in managing and handling different types of cargo, and the technologies and processes used to ensure efficient and effective cargo transportation. K5 CO3 (8)
10. What is IATA, and how does it regulate the air cargo industry? How has IATA's work impacted the air cargo industry, and what are some of the key trends shaping the future of air cargo? K5 CO4 (8)

PTO

11. Introduction:

K6 CO5 (8)

Air freight forwarders play a crucial role in the transportation of goods by air. They act as intermediaries between shippers and carriers, coordinating the shipment of goods and handling the logistics involved in the transportation process. This case study focuses on a prominent air freight forwarder, DHL Global Forwarding, and its operations.

Case Study:

DHL Global Forwarding is one of the world's largest air freight forwarders, providing comprehensive logistics solutions to its customers. The company operates in over 190 countries and territories and offers a wide range of services, including air and ocean freight, customs clearance, and warehousing.

In 2018, DHL Global Forwarding announced that it had successfully transported a shipment of 60 metric tons of automotive parts from Germany to Brazil using a chartered Boeing 747-400 freighter. The shipment included 46 pallets of automotive parts, including engines and transmissions, and required specialized handling and logistics solutions.

The logistics involved in the transportation of the automotive parts included proper packaging and labeling, loading and unloading of the cargo, and coordination with various stakeholders, including customs officials and ground handling personnel. DHL Global Forwarding also provided real-time tracking and monitoring of the shipment, enabling the customer to track the location and status of the cargo at every stage of the transportation process.

Lessons Learned:

The successful transportation of the automotive parts by DHL Global Forwarding highlights the importance of effective logistics solutions in air freight forwarding. The case study demonstrates the importance of proper packaging, labeling, and handling of cargo, as well as coordination with various stakeholders involved in the transportation process.

Additionally, the case study highlights the role of technology in air freight forwarding. DHL Global Forwarding's use of real-time tracking and monitoring of the shipment enabled the customer to have complete visibility of the transportation process, providing a seamless and efficient logistics solution.

Conclusion:

Air freight forwarders play a critical role in the transportation of goods by air, providing essential logistics solutions to their customers. The case study of DHL Global Forwarding demonstrates the importance of effective packaging, labeling, and handling of cargo, as well as the coordination with various stakeholders involved in the transportation process.

Moreover, the case study emphasizes the role of technology in air freight forwarding and the potential benefits of real-time tracking and monitoring of shipments. DHL Global Forwarding's successful transportation of the automotive parts serves as an example of the capabilities of air freight forwarders in providing comprehensive logistics solutions to customers.

Question-

Interpret the importance of proper packaging, labeling, and handling of cargo, as well as coordination with various stakeholders involved in the transportation process.