

Air Transport Fundamentals



eTextbook or Printed format

This course will provide you with an overview of the air transportation system that illustrates the interdependence among its components: airlines, airports, civil aviation authorities and air navigation services.

Objectives

Upon completing this course you will be able to:

- Apply your knowledge and skills in the aviation industry and make more effective decisions for your organisation
- Become a more valuable employee or potential employee by having a thorough knowledge of the air transport industry, its function and role
- Provide insight into current trends and issues in civil aviation, such as aviation safety and security, law and new technology
- Build or refresh management and leadership skills
- Respond to management challenges effectively

Target audience

- Junior-level managers in all fields of aviation
- Managers entering the aviation industry

Key topics

- Overview of the air transport system
- Aviation law
- Role and function of world aviation organizations
- Role and function of civil aviation authorities (CAAs)
- Role and function of airlines
- Role and function of airports
- Role and function of air navigation service (ANS) providers
- Impact of technology on air transportation
- The future of air transportation

Available course formats

- Order online to receive self-study course materials in either Printed or eTextbook format.
- You may enrol at an [IATA Authorized Training Center](#) to study these materials with the help of a local trainer.

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Completing this course

- This course requires approximately 45 hours of study, to be completed in 18 months.
- All candidates will be given 2 attempts to successfully complete the final exam.
- To successfully pass the exam, the student must achieve a grade of 60% or higher.
- An IATA Certificate is awarded upon successful completion of the final examination.
- This course is part of the [Diploma in Aviation Studies](#).

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1. Overview of the Air Transport System

- 1.1 System Components and World Aviation Organizations
- 1.2 Airlines and Airports
- 1.3 Air Navigation Services and Civil Aviation Authorities

2. Aviation Law

- 2.1 International Conventions and the International Civil Aviation Organization (ICAO)
- 2.2 Annexes to the Chicago Convention
- 2.3 Aviation Safety and Security
- 2.4 Freedoms of the Air
- 2.5 International Air Law: Liability

3. Role and Function of Civil Aviation Authorities

- 3.1 CAA and International Relations
- 3.2 Civil Aviation Master Planning
- 3.3 Economic Regulation of Air Transport
- 3.4 Safety Oversight, System Safety and Accident Investigations

4. Role and Function of Airlines

- 4.1 Overview of Airline Systems
- 4.2 Air Carrier Certification
- 4.3 Ground Handling, Load Control and Delays
- 4.4 Airplane Route, Type Selection, Schedules and Planning
- 4.5 Operations Control

5. Role and Function of Airports

- 5.1 The Airport Industry and Ownership Models
- 5.2 Airport Charges and Airport Master Planning
- 5.3 Airport Certification
- 5.4 Facilitation, Security and Noise Management

6. Role and Functions of Air Navigation Service (ANS) Providers

- 6.1 Airspace Structure, Air Traffic Services and Airplane Performance
- 6.2 Navigation Aids and Communications

7. Navigation Charges, Flow Management and Future Air Navigation Systems (FANS) The Impact of Technology on Air Transportation

- 7.1 Extended Range Twin Engine Operations (ETOPS) and Ultra Long Range Operations (ULRO)
- 7.2 Security Systems
- 7.3 Computer Reservation Systems, Airline Alliances and Code Sharing
- 7.4 Training and Simulators

8. The Future of Air Transport

- 8.1 Economic Regulation and Privatization
- 8.2 Capacity and Environmental Issues
- 8.3 New Aircraft Technology, Safety and Security Issues

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