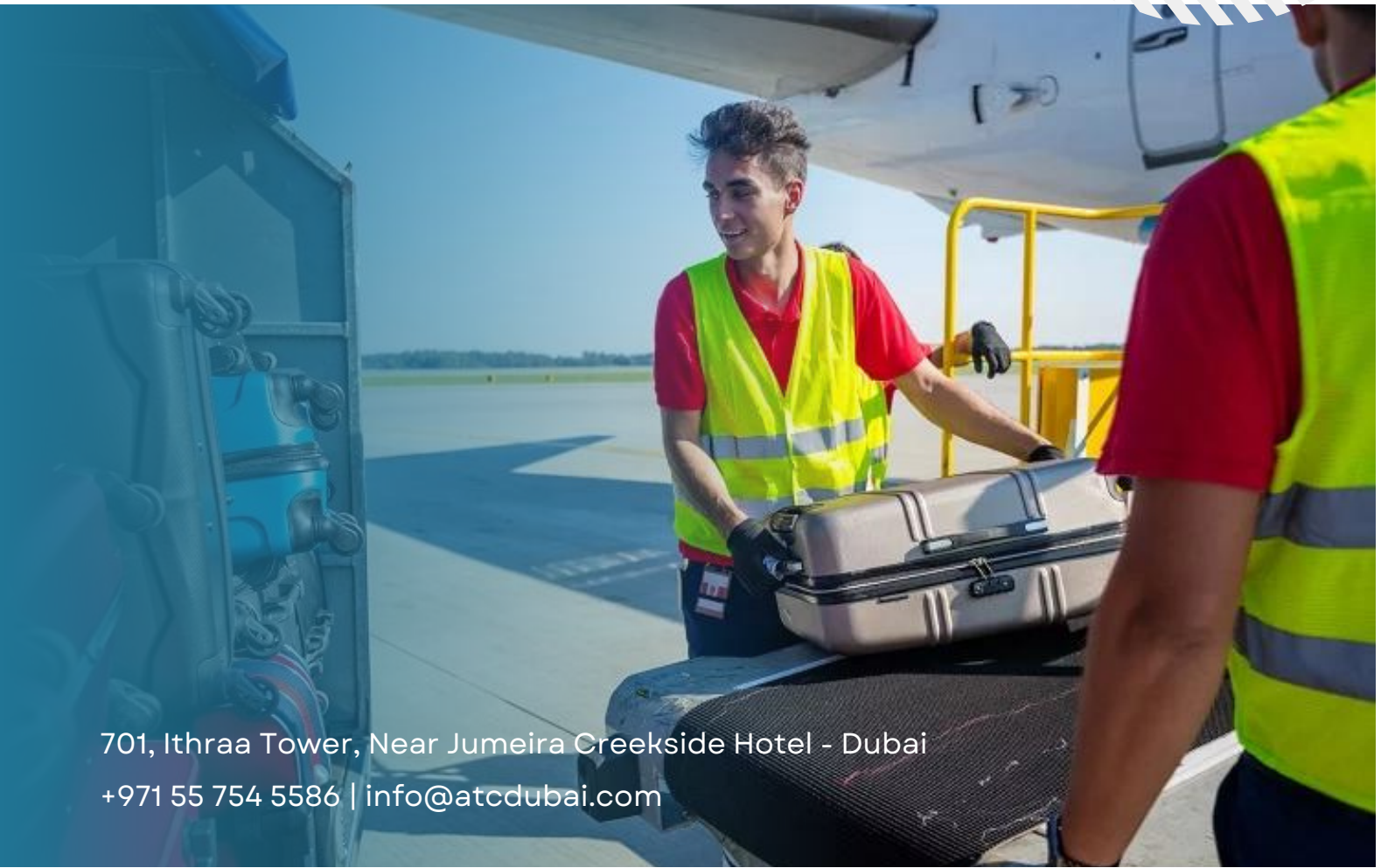
AVIATION TRAINING CENTER
LEARNING UNLIMITED

BASIC LOAD CONTROL COURSE



701, Ithraa Tower, Near Jumeira Creekside Hotel - Dubai
+971 55 754 5586 | info@atcdubai.com

Course Objective:

The Basic Load Control Course has been designed to provide participants of the air transportation industry with the skill to control the weight and 5 Days balance of a departing flight and complete the required load documentation, e.g., load plan, load sheet, and trim sheet of a narrow-bodied aircraft efficiently and professionally at a basic level according to the prevailing international industry standard.

Section A: Salient features of the Wide-bodied Aircraft

1)Basic Aircraft Structure consisting of :

Fuselage & Wings and their primary functions
Horizontal Stabilizer settings and its function relevant to the Load Controller's job
Functions of Vertical Stabilizer, Ailerons and Flaps

2)Passenger Cabin features :

Cockpit structure and seats
Class-wise Pantry areas
Passenger Zones based on 3 Class Configuration (First , Business & Economy classes)
Passenger Zones based on 2 Class Configuration (First or Business Class & Economy class)
Difference between Configuration and Version

3)Lower Deck Features :

Holds and Compartments
Lower Deck ULDs (Containers like AKE, ALF, AMF and Pallets like PAJ and PMC)
The different types of Locks found in the Holds for restraining the ULDs

4)Features of the 5 Fuel Tanks

Pair of Outboard Tanks (Left Wing & Right Wing)
Inboard Tanks (Left Wings & Right Wing)
Centre Tank located in between the Forward & AFT Holds, in the center area of the Belly.
Standard Fuelling sequence

Section B: Introduction to the Load Control Documents:

a)Loading Instructions :

To plan the distribution of the Cargo, Mail, and Baggage to achieve a safe CG

b)Load sheet :

To ensure that the Aircraft is within the Safe Weight limits during Take-off, Landing and when the Fuel needs to be dumped prior to an Emergency Landing

c)Trim sheet :

To ensure that the Aircraft is Centre of Gravities during the 3 critical stages, namely, while Taking-off and Landing are within the specified ranges to ensure that it can safely balance itself during these stages.
Also, it is to ensure that the Aircraft can safely balance itself, even when the Fuel is jettisoned.

d)Preparatory Sheet

To estimate the 3 Critical Weights, namely the Zero Fuel Weight, Take-off Weight & Landing Weight based on the Booked figures of Passengers and Cargo and Mail.

Section C: The Basic Topics covered in regard to Weight & Balance:

- Calculation of Dry Operating Weight & Index
- Standard Passenger Weights at 85 kg for Male, 70 kg for Female, 38 kg for Child and 10 kg for Infant
- Conveying the Estimated Zero Fuel Weight to the Captain.
- Getting the Estimated Take-off Fuel and Trip Fuel from the Captain
- Also, check if any Restrictions would prevail on Take-off Weight or Landing Weight Plan the Distribution of Cargo, Baggage and Mail in the different Compartments, in a professional manner, so as to achieve the best and safe balance of the Aircraft, which would in turn also help in minimizing the Fuel consumption, taking into account all the Bay Limits and the Compartment Limits and the Hold Limits
- Ensure that incompatible Dangerous Goods and Special loads are safely separated.
- Get Final Passenger Figures and Baggage Weight when Check-in Counters are closed.
- Work out the Final Zero Fuel Weight and convey it to the Captain. •Get the Final Fuel Figures from the Captain
- Submit them to the Captain
- Incorporate Last Minute changes due addition and deletion of Passenger figures and Cargo
- Coordinate with the Loading Supervisor to confirm that the Aircraft has been loaded strictly in compliance to the Loading Instructions
- Coordinate with the Passenger Services and Chief purser to ensure that the Head count on board matches with the Load sheet figures.
- Dispatch the Flight safely

Training Methodology
Instructor- Led Training (ILT).
Practical case study in class

Course Information:
Course Duration: 6 Weekend Days (Saturday & Sunday)
Course Time: 10:00 – 17:00 Hrs.
Course Venue: ATC, Dubai

Value Added Services:
Printed courses material (Handout)
Certificate of Course attendance after passing the assessment.