European Aviation Institute | EASA Part 147 Training Organisation

AAR • RAA ROMANIAN AERONAUTICAL ASSOCIATION

GROUND HANDLING LOAD CONTROL

The aim of this course is to ensure full compliance with the international regulations (ICAO, EASA, etc) as well with the National Authorities.

At the end of this course the students will be able to describe the complexity of the elements included in the ground handling activities and correct usage of the loading instructions in order to achieve safe operations.

Syllabus

Chapter 1 – Definitions and terminology

Chapter 2 – Aerodynamics

- Principles of weight and balance
- Center of gravity (CG) and Center of pressure (CP)
- Stability and principals of weight and balance
- Aerodynamic forces
- Take off – aerodynamics
- Mean Aerodynamic Chord (MAC%)
- MAC% limitations and margins
- Weight limitations
- Structural limitations
- Area load limitations
- Secure load

Chapter 3 – Aircraft knowledge

- Aircraft main parts
- Skin and Wings
- Flaps / Slots / Spoilers / Elerons
- Aircraft tail
- Propulsion
- Landing gear
- Aircraft systems

Chapter 4 – Wide Body Aircrafts

Chapter 5 – ULD – Unit Load Device

Chapter 6 – Meteorology

- Atmosphere and international standard
- Water, vapors and ice
- Water circle
- Relative humidity
- Fog
- Vertical stability
- Types of clouds
- Barometrical pressure and wind
- Air mases
- Abnormal situations
- METAR
- TAF
- SIGMET
- Maps
- Exercises

- Aircraft balance
- DOW (dry operating weight)
- Trim by Index
- Trim by graph
- Wheel trim
- Exercises

Course duration: 5 days / 40 hours

Chapter 7 – Air Traffic Control

- Air Traffic Control and airspace separation
- Flight types
- Airspace structure
- Legislation and documentation
- Flight plans
- NOTAM's
- Exercises

Chapter 8 – Responsibilities – IATA AHM 590

- Flight dispatcher (TCO)
- Weight and balance agent
- Aircraft coordination

Chapter 9 – IATA messages

Chapter 10 – Weight & Balance

- Aircraft weights
- Definitions
- Weight calculations
- Maximum permitted load
- Maximum fuel
- Weight formulas (equations)

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