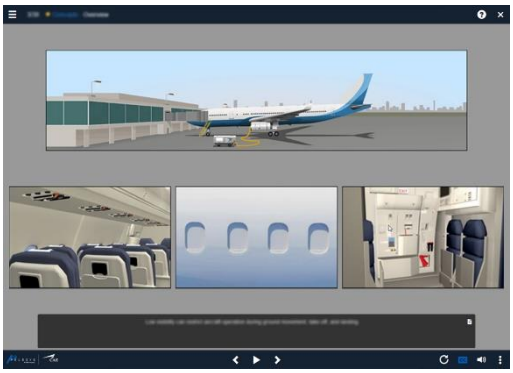
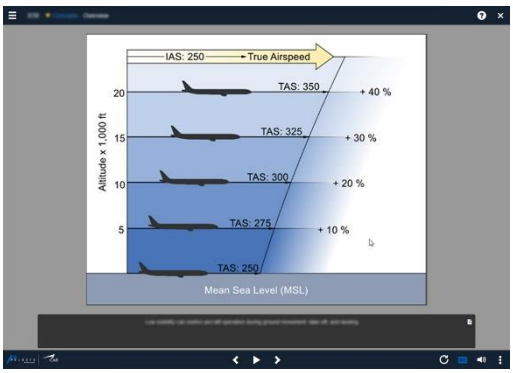
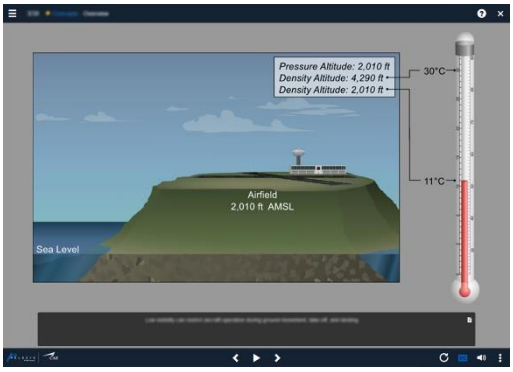
HOT WEATHER OPERATIONS

2019-2020







SUMMARY

This course covers flight operations in hot weather conditions, emphasizing operating considerations and resulting performance issues.

Effects of elevated temperatures on aircraft systems, and on thrust, lift and brake energy requirements are discussed. Cooling techniques and abnormal operations are reviewed.

TARGET POPULATION

The Pelesys Hot Weather Operations course is designed for Professional Pilots requiring initial or recurrent training.

REGULATORY COMPLIANCE

- ICAO / EASA / FAA / Transport Canada
- Maintain compliance with IOSA standards

Versions Available:
Standard

Course Length:
30 min

LESSON 01: Basic Concepts and Performance

In this lesson we cover:

- Density altitude definition
- Density altitude effects
- Aircraft performance data (WAT, Airbus FOVE, Boeing OPT)
- TAS effects
- Brake energy considerations

LESSON 02: Operational Factors

In this lesson we will cover:

- System considerations
- Cabin cooling
- Flight deck cooling
- Take-off variables
- Engine start / pushback
- Taxi thrust considerations
- Single-engine taxi
- Brake temperature considerations - turnarounds
- Rejected take-Off
- Take-off considerations
- Go-around factors
- Landing
- Shut-down

LEARNING TIME AND RUN TIME

This course has a learning time of: (run time plus additional time per page to account for understanding learning points)

- 30 min

This course has a run time of: (the base time for each page to be completed)

- 18 min

Exam Generation System (EGS) Banked Questions

The total amount of banked questions for this course is:

Lesson Title	Standard Questions
Basic Concepts and Performance	9
Aircraft Operations	11
	20

REFERENCE MATERIAL

The Pelesys Hot Weather Operations Course provides pilots and operators with information needed to identify, understand and mitigate risks associated with operations during hot weather. It is based on information outlined in:

ICAO

- DOC 9375 Manual of All Weather Operations

EASA

- GM1 CAT.POL.A.305 Take-off
- CAT.POL.A.340 Take-off and landing climb requirements
- CAT.POL.A.400 Take-off
- GM1 CAT.POL.A.400 Take-off RUNWAY SURFACE CONDITION
- CAT.POL.A.405 Take-off obstacle clearance
- CAT.POL.A.435 Landing — wet and contaminated runways

FAA

- Density Altitude – FAA Safety Organization
- Pilot Handbook of Aeronautical Knowledge - Chapter 11

TC

- CAR 525.961

The operator remains responsible for obtaining approval from the regulatory authority.

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