

HOT WEATHER OPERATIONS

PILOT SPECIALTY COURSE SERIES

SUMMARY

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

Experienced Airline Pilots

Great for pilots requiring initial or recurrent training.



REGULATORY COMPLIANCE*

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



DELIVERY MODE

100% online, self-guided



COURSE LENGTH

45 minutes

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LESSON 1: Basic Concepts and Performance

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

LESSON 2: Operational Factors

- 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
- Quiz

* Operator is responsible for obtaining approval from the regulatory authority.