Office of Professional Education

THUNDERSTORM AVOIDANCE

PILOT SPECIALTY COURSE SERIES

SUMMARY

Covers the weather effects and aviation hazards associated with thunderstorms and microbursts. The course starts with a detailed explanation of types of thunderstorms, thunderstorm formation and microbursts. The second part of the course focuses on related hazards and techniques (including use of airborne weather radar) for thunderstorm avoidance. The final part of the course is a review of an aircraft accident which occurred in Toronto Canada in 2005 resulting from flight into a thunderstorm.

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

1 hour, 15 minutes

EMBRY-RIDDLE Aeronautical University™
WORLDWIDE
OFFICE OF PROFESSIONAL EDUCATION

386-226-7232 ▪ training@erau.edu ▪ proed.erau.edu

THUNDERSTORM AVOIDANCE

PILOT SPECIALTY COURSE SERIES

LESSON 1: Thunderstorms and Microbursts

- Types of Thunderstorms
- Life Cycle of a Thunderstorm
- Microbursts
- Quiz

LESSON 2: Thunderstorm Avoidance

- Hazards to flight operations that are associated with thunderstorms
- Some effective techniques (including use of airborne weather radar) for thunderstorm avoidance
- Quiz

LESSON 3: Thunderstorm Accidents

- Air France 358, an A340 which overran the end of the runway in Toronto, Canada
- Air France 447, an A330 which crashed in to the Atlantic Ocean

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

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