

WEATHER & METEOROLOGY

PILOT SPECIALTY COURSE SERIES

SUMMARY

Covers aviation-related weather concepts, focusing on practical issues associated with airline flight operations. Included is a review of frontal systems, fog types and formation and high altitude weather phenomena (including the jet stream and clear air turbulence). Particular attention is focused on geographical areas of interest, including the Middle East and Asia and the Intertropical Convergence Zone (ITCZ), and associated tropical cyclones (hurricanes or typhoons). A final section reviews decoding of Weather Reports and Forecasts.



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, 45 minutes

EMBRY-RIDDLE
Aeronautical University™
WORLDWIDE

OFFICE OF PROFESSIONAL EDUCATION

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LESSON 1: Frontal System

- Climate and Weather
- Frontal Systems
- Stationary Fronts
- Warm Fronts
- Cold Fronts
- Occluded Fronts
- Quiz

LESSON 2: Fog

- Radiation Fog
- Advection Fog
- Up-slope Fog
- Frontal Fog
- Steam Fog
- Quiz

LESSON 3: High Altitude Weather

- Tropopause
- High Level Clouds
- Jet Stream
- Clear Air Turbulence
- Quiz

LESSON 4: Weather Conditions – Middle East and Asia

- Middle East and Asia
- Quiz

LESSON 5: The Intertropical Convergence Zone

- Intertropical Convergence Zone (ITCZ)
- Quiz

LESSON 6: Tropical Cyclones

- The characteristics of a tropical cyclone (hurricane or typhoon)
- How tropical cyclones are formed
- How these storms are categorized
- Quiz

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LESSON 7: Weather Reports and Forecasts

- METAR – Routine Aviation Weather Report
- SPECI – Non-Routine Aviation Weather Report
- TALPA-ARC
- TAF – Terminal Aerodrome Forecast
- AIRMET and SIGMET formats
- Quiz

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

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