

Objectives for Class #1

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By the end of this class, you should be able to:

The Atmosphere:

- explain the importance of water vapour
- list the 3 properties of the atmosphere
- identify the 5 layers of the atmosphere
- explain why clouds do not exist past the tropopause
- describe the relationship between altitude and temperature / density
- state the conditions of the ICAO Standard Atmosphere

Clouds:

- distinguish between strato-form and cumulo-form clouds
- describe how clouds are formed
- name various clouds according to their location and stability
- explain how meteorologists report sky conditions

Stability:

- distinguish between stable and unstable air
- name and describe the 5 main lifting agents

Temperature and Humidity:

- state the following definitions:
 - condensation, sublimation and evaporation
 - relative humidity
 - dewpoint
 - isotherm
 - lapse rate
- explain how to change the relative humidity
- solve 'cloud base' problems