

# 302

## ADVANCED FLIGHT TRAINING

### COURSE CONTENT

#### LESSON 1

- a / Revision on Basic Phase
- b / Human Performance & Limitations
  - › Basic Physiology and the Effects of Flights
  - › Basic Aviation Psychology
  - › Sleep and Fatigue
- c / Simulation Exercise 1
  - › Stalling with wing drop
  - › Slow Flight

#### LESSON 3

- a / Engine and Propulsion
  - › Forced Induction
  - › Fuel
  - › Pre-Ignition and Detonation
- b / Simulation Exercise 3
  - › Flapless Approach and Landing
  - › Glide Approach

#### LESSON 2

- a / Meteorology
  - › Relationship between Pressure, Density, and Temperature
  - › Classification of Clouds
  - › Wind-shear, Icing, Thunder-storm
- b / Simulation Exercise 2
  - › Go Arounds
  - › Engine Failure After Take Off (EFATO)

#### LESSON 4

- a / Navigation
  - › Navigation Terms
  - › The Earth
  - › Visual Navigation Chart
- b / Principle of Flight
  - › Factors Affecting Aircraft Performance
  - › Lift-to-Drag Ratio
- c / Simulation Exercise 4
  - › Take off and Landing in Crosswind
  - › Full Circuits with the use of Checklist (Crosswind)

### PROGRAM OBJECTIVE

Gain Advanced Flight Operations & Knowledge

### CLASS INFORMATION

Duration: 5 Lessons, 90mins / Lesson  
Language: English / English & Chinese  
Lesson Frequency: Once a week  
Teaching Style: One on One  
Price: \$9,900 per person

### PREREQUISITE

Must have completed any one of the courses:  
201 - Young Eagles  
202 - Introduction to Flight

#### LESSON 5

- a / Knowledge Confirmation
- b / Simulation Exercise 5
  - › Normal Circuits (Nil Wind)
  - › Normal Circuits (Crosswind)
  - › Circuits with Failures

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