

# Master Airman



Complete the following:

- (A) Hold the Senior Airman Badge.
- (B) Flight Safety and Aviation Concept
  1. Understand the definitions of air spaces and its constraint to flying.
  2. Explain the 'right of way' rules for aircrafts.
  3. Understand ground to air and air to ground emergency signals (including lighting and pyrotechnic).
- (C) Aviation Knowledge
  1. Understand the conditions for Visual Flight Rules (VFR) and Instrument Flight Rules (IFR).
  2. Understand navigation lights, quadrantal height rule and separation rule.
  3. Understand the parts and operation of piston engines and jet engines. Understand engine failures during flight and ways of prevention.
  4. Understand aerobatics and the manoeuvres taken.
- (D) Navigation Knowledge
  1. Understand the signs of aviation maps and can point out the landscape of an imaginary 50 nautical mile route.
  2. Know how to use the flight computer and determine the heading based on route, wind speed and wind direction.
  3. Understand how an aircraft maintain its course by ground equipment and the radio.
  4. Understand the Secondary effect of flying.
- (E) Communication Knowledge
  1. Explain the function and importance of radar in aviation.
  2. Understand the common systems in aircrafts.
  3. Explain the meaning of a string of information from ATIS.
  4. Explain a record of the communication between a pilot and the tower.

(F) Aviation Meteorology

1. Understand the formation of fronts and the weather conditions, explain the weather charts and identify the effects of fronts on aircrafts.
2. Understand the risks of aircraft when facing storms, fogs, wind shear, turbulence and icing. Explain the possible weather conditions in these situations.
3. Explain the aviation weather report and forecast by the Hong Kong Observatory.

(G) Aircraft Manoeuvres

1. Know the operating principles of pressure gauges (altimeter, air speed indicator) and the compass, and be able to identify the effects of flying from errors or malfunction of the gauges.
2. Know the takeoff and landing procedures of light aircraft.
3. Know the manoeuvres during emergency.

(H) Aircraft Recognition

1. Recognise at least 30 common aircrafts found in Hong Kong, including civil aircraft, military aircraft, helicopter and light aircraft, from the photos provided by the examiner.

(I) Practical

1. Teach in at least 2 sessions of Airman Badge Course
2. Investigate a topic relevant to aviation.
3. Flying experience:  
Have a flying experience in a fixed wing or rotary wing aircraft (not a passenger in a civil aircraft); or  
Correctly manoeuvre an aircraft in the flight simulator, and complete a basic takeoff and landing circuit.