

# Basic Air Activity



Complete the following:

1. Flight safety and aviation concept
  - (a) Have a general understanding of one of the following aviation institutions:
    - (i) Civil Aviation Department
    - (ii) Government Flying Service
    - (iii) Airport Authority Hong Kong
    - (iv) Troops Hong Kong Garrison of the Chinese People's Liberation Army Air Force
  - (b) Know the Hong Kong International Airport (including geographical location, facilities, transportation).
  - (c) Understand the limitations, requirements and general safety rules for access to the airport's airside.
  - (d) Understand the impact of prohibited items in passengers' check-in baggage and hand luggage on aviation safety and list out examples of such prohibited items to the assessor.
  - (e) Explain the impact of dangerous goods for air carriage on aviation safety and list out examples of such dangerous goods to the assessor.
  - (f) Identify the airline companies registered in Hong Kong and introduce some general information of these companies to the assessor, including the aircraft types under service and destinations, etc.
2. Aviation knowledge
  - (a) Have general understanding of the aviation history of Hong Kong and the world, and share with the assessor the part of aviation history you are most interested in.
  - (b) Name different types of aircraft.
  - (c) Name the various main parts of the modern aircraft (including fixed-wing aircraft, helicopters and military aircraft).

- (d) Have general knowledge (including the basic principles, equipment) for the following three air sports:
  - (i) Parachuting
  - (ii) Gliding
  - (iii) Hot air ballooning
  
- 3. Fixed-wing aircraft basics
  - (a) Understand the basic principles of the airfoil.
  - (b) Name the three Primary Control Surfaces and the Secondary Effect of fixed-wing aircraft, understand how the pilot controls the aircraft and how the surfaces change the attitude flying.
  - (c) Explain the relationship between the lift and weight, and between the thrust and drag of the fixed-wing aircraft
  - (d) Explain the function and working principles of "Trim Tab".
  - (e) Know the six Primary Flight Instruments in the cockpit and be able to read the information from such instruments.
  
- 4. Aircraft identification
  - (a) Know the WEFT identification method.
  - (b) Identify the twelve common types of aircraft in Hong Kong (four civil aircraft, four helicopters, two light aircraft/business aircraft and two military aircraft) as specified in the "Aircraft Recognition List" approved by the Association.
  
- 5. Practicum
  - (a) Make a paper hand launch glider with a wingspan of not less than twenty centimeters and demonstrate how to adjust its control surfaces in order to perform a straight or steered flight to the assessor.
  - (b) Complete the following designated items (not less than 2 hours 15 mins in total) using a flight simulator recognised by the Region:
    - (i) Effects of controls
    - (ii) Straight and level flight
    - (iii) Climb and descent
    - (iv) Medium level turn

- (c) Visit an aviation institution or participate in an aviation activity recognised by the region for at least two hours.
- (d) Complete one of the items in the "Elective Air Activities".



Completion of this Badge, including a total of six months or above in lecture or practicum, would be counted as an equivalent of relevant item under Skills Section of the Hong Kong Award for Young People Bronze Award.