

## **SECTION 1.2      General aeronautical knowledge (AK)**

### **Unit 1.2.1          RARO:    RPL aeronautical radio operator**

#### **1.        Reserved**

#### **2.        Aeronautical radio telephony**

##### **2.1        Operation of aeronautical radio systems**

- 2.1.1      Meets the English language to Aviation English language standard (AEL).
- 2.1.2      Recall the phonetic alphabet and the method of transmitting numerals.
- 2.1.3      Recall the correct use of aircraft call-signs.
- 2.1.4      State standard radio procedures for outside controlled airspace (OCTA).
- 2.1.5      State how transmission of time is conducted.
- 2.1.6      State how to listening to the radio.
- 2.1.7      State how to establish and maintain communications.
- 2.1.8      State the hazards of clipped transmissions and the consequences.
- 2.1.9      Correct procedure for the conduct of a routine pre-flight test of an aircraft radio-telephone, including the following:
  - (a)    use of radio transmit and receive selector switches;
  - (b)    turning radio on;
  - (c)    selecting correct frequencies;
  - (d)    use of squelch control;
  - (e)    selection of radio navigation equipment;
  - (f)    correct use of a microphone;
  - (g)    use of intercom and public address system;
  - (h)    voice activated systems.
- 2.1.10    Describe the correct procedure for routine fault finding and correction.
- 2.1.11    State the standard phraseology to be used to report aircraft positions in the circuit and the required calls for local flights.
- 2.1.12    State the responsibilities of an aeronautical radio operator in relation to the following:
  - (a)    secrecy of communications;
  - (b)    unauthorised transmissions.
- 2.1.13    Describe the function of each of the following components of an aeronautical radio system:
  - (a)    power source/battery switch;
  - (b)    radio master;
  - (c)    fuses and circuit breakers;
  - (d)    microphone;
  - (e)    transmitter;
  - (f)    receiver;
  - (g)    antenna;
  - (h)    headphones and speaker.
- 2.1.14    Describe the difference between a distress and an emergency message and the standard phrases used in both cases.
- 2.1.15    Accurately extract radio failure procedures from ERSA.
- 2.1.16    In relation to the use of an aeronautical radiotelephone, describe the controls used to transmit and receive, including audio panel selections.