

**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.