

SECTION 3.08**SYLLABUS OF RADIO OPERATOR CERTIFICATE
(KNOWLEDGE TEST)****LEVELS OF KNOWLEDGE AND APPLICATION**

The following syllabus specifies the **MINIMUM** standard of knowledge required. Qualifying letters are used to indicate the specific levels of knowledge necessary for each individual item within a particular subject, as follows:

- A A **basic** understanding of the subject matter, sufficient, with some assistance from an RA-Aus instructor, for the solution of simple practical problems either by calculation or by the exercise of judgment.
- B A **sound** understanding of the subject matter, sufficient, without assistance, for the solution of more advanced practical problems either by calculation or by the exercise of judgment.
- C A **thorough** understanding of the subject matter, achieving without assistance, a first attempt accuracy of 80% in the solution of advanced practical problems either by calculation or by the exercise of judgment.
- P- **Basic** practical application of relevant procedures
- P+ **Thorough** practical application of relevant procedures

PASS MARK

The pass mark for the examinations set to this syllabus is 80%.

1.1 – NAVIGATION		Standard prior to:	
		Solo	P/Cert
1.1.1	Radio Telephony.		
	Know the basic principles of radio wave propagation and recall the appropriate frequency bands for VHF.	B	C
	Know the limitations of VHF in terms of quality of reception and range.	B	C
	List factors which may affect VHF reception.		
	Use appropriate charts/documents to:		
	(a) extract VHF frequencies;		
	(b) determine communication coverage.		
	Recall the phonetic alphabet and the method of transmitting numerals and recreational aircraft call signs.	B/P	C/P+
	Recall pertinent (local) procedures and radio phraseology for:	B/P	C/P+
	(a) circuit flying;		
(b) flights to/from the training area.			
State the purpose of the following radio controls:	B/P	C/P+	
(a) on/off switches;			
(b) frequency selector and squelch control;			
(c) transmit button and mute switch.			
Differentiate between a distress & urgency message	B/P	C/P+	
(a) give examples when each should be used;			
(b) recall each prefix and extract the elements of each message from ERSA			
Extract radio failure procedures from ERSA	B/P	C/P+	
Explain the legal requirements of radio calls with regard to:	B	C	
(a) Foreign language			
(b) Secrecy of communications			
(c) Swearing or offensive language			

	(d) Non-essential radio communication (e) Improper or unauthorised use of callsigns		
1.1.2	<p>Class 'G' Airspace Procedures.</p> <p>Explain the main differences and cite the radio requirements and broadcasts between;</p> <ul style="list-style-type: none"> (a) Flight Information Area (FIA) (b) CTAF(R) (c) CTAF (d) Aircraft landing area. <p>Explain procedures after loss of radio communication at;</p> <ul style="list-style-type: none"> (a) Flight Information Area (FIA) (b) CTAF(R) (c) CTAF (d) Aircraft landing area. 	B/P	C/P+