

## South Bristol Amateur Radio Club Foundation Course

### 18.0 Practical Assessments.

(Syllabus section 8e.1 to 8f.2)

- 18.1 These assessments will be carried out with a tutor. It may take several sessions to complete this for everyone.
- 18.2 (8f.1) Demonstrate connecting a transmitter/receiver to a power supply, antenna and feeder.
- 18.3 (8f.2) Demonstrate, using a half wave dipole antenna with adjustable elements, that the SWR varies as the length of the elements are varied. Set up the dipole for minimum SWR.

*Note: The elements are not to be adjusted whilst transmitting. Correct procedure for a radiating test shall be demonstrated.*

- 18.4 (8e.1) Demonstrate, using a VHF/UHF transmitter/receiver; correct tuning into an amateur FM voice signal and data signal such as packet. Read the signal strength meter (where fitted).
- 18.5 (8e.5) Demonstrate a CQ call on VHF/UHF, making a contact and initiating a change of frequency (QSY) off the calling channel.
- 18.6 (8e.2) Demonstrate correct operation of a VHF transmitter/receiver in simplex mode. Controls used shall include frequency, squelch and audio gain (volume). Recall the meaning of signal reports exchanged during a contact. Make a simplex radio contact and exchange signal reports.

Note: 18.5 and 18.6 will be carried out together.

- 18.7 (8e.3) Demonstrate, using an HF transmitter/receiver, correct tuning in to an amateur SSB voice signal and a Morse signal. Read the signal strength meter.
- 18.8 (8e.4) Demonstrate correct operation of an HF transmitter/receiver in an SSB contact. Controls used shall include frequency, the RIT (clarifier), audio gain (volume), RF gain, microphone gain and antenna tuner (ATU). Make an HF SSB voice contact and exchange signal reports.

## **19.0 Morse Code.**

(Syllabus section 10)

(Manual page 31)

19.1 Morse is a very good mode for use under difficult conditions or where there is no common spoken language between the operators.

19.2 The Morse assessment is being retained in the Foundation syllabus. Further knowledge of Morse is not required for the higher license classes.

19.3 Receive Morse Code:

19.3.1 This will be explained. You will have a Morse look-up table to help you. There is no minimum speed or time limit.

19.4 Send Morse Code:

19.4.1 This will be explained. Again you will have the table to help you and there is no minimum speed or time limit.

## **20.0 Preparation for Next Session - Mock Exam**

20.1 Next session will be your Mock exam so over the next week you need to look back through your notes from previous lessons and the Foundation Manual. After the Mock we will go through the paper as a group. If there is anything you are not sure of then please ask; we are here to help.

20.2 For the exam please bring:

- A black or blue pen (and a spare).
- A basic calculator (if you wish).
- Current Passport or other legal document showing name, photograph, printed name and signature

20.3 If you are successful at passing your exam then you may wish to purchase a certificate for £10. Please ensure you have £10 cash with you on the night of your exams as your order will be sent back to RSGB with the exam paperwork. Certificates will be dispatched by RSGB to your home address.

20.4 GOOD LUCK!!