

- c. Be required to signal some word or words not included in the vocabulary of the code, either by letters or by the spelling table (page 516), or both.
 - d. Have a knowledge of the distant signals, and of their object, and the different modes of signalling therewith.
 - e. Know the special Morse signals indicated by certain letters as given on page 550.
 - f. Have a good knowledge of the distress signals, and understand the penalty which may be incurred by their improper use.
6. The candidate should know that the International Code is used on board H.M. ships, and has been adopted by all the principal maritime Powers for use on their public as well as merchant ships.

174. "Allied Signal Manual."—1. Candidates must know the meaning of any or all of the single-flag signals given therein, and the signification of the Pilot Jack when incorporated in a hoist. They will also be required to make or read from the Pilot Jack table a hoist given by the Examiner. Candidates need not be expected to commit the Pilot Jack table to memory, but there should be no hesitation whatever in making or reading a signal.

2. They should also know how to recognize any of the special signals given in the "Allied Signal Manual."

MORSE LAMP-FLASHING, MORSE FLAG-WAVING, AND SEMAPHORE.

175. Conditions of Examinations for all Grades.—1. All candidates for all grades of certificates of competency (except master of a river steamer) will be tested, practically, in both receiving and sending messages in each of the three methods of signalling—that is, in Morse lamp-flashing, Morse flag-waving, and semaphore.

2. The tests in each method of signalling will be carried out in the following order—lamp-flashing, flag-waving, semaphore; and in each method the candidate will first be required to make his portion of the test to be read by the Examiner; after which the Examiner will make the portion of the test to be read by the candidate.

3. In the lamp-flashing test the candidate will be required to make all his signals and messages by use of a Morse key, and the messages which he is required to read will be made by the Examiner either manually or mechanically by an automatic signalling-device, or both, as he may decide.

4. The flag-waving test will be conducted by the type of Morse flag as used in H.M. service ashore and afloat.

5. The semaphore test may be conducted either by hand flags or mechanical semaphore, or both, at the Examiner's discretion.

6. The test messages will in each case be a block-letter test message comprising three alphabets (seventy-eight letters) assembled haphazard in groups of five letters.

7. Selection of spelling messages, which may be passages from any newspaper or book in English and may contain figures, is left to the discretion of the Examiner. The candidate may either make the figures (if given) or spell them out in full; but, if figures are made, the Examiner must see the proper signs are made before and after the figures.

8. The spelling and test messages as read by a candidate should be taken down by another candidate where such is possible, otherwise by a clerk or other person, according as the Examiner may deem expedient.

9. Candidates must be thoroughly tested in the various signs, and in the procedure of calling up, sending, receiving, and answering a signal, as laid down in the "Allied Signal Manual," and this course should always be strictly adhered to.

10. Particular attention must be paid by Examiners to the accurate spacing of the Morse signs, and to the intervals between letters and words, both in lamp-flashing and flag-waving; also to the correct making of the semaphore signs. Any attempted increase in speed at the expense of accuracy must be discouraged.

11. Marks will be allotted for each description of message as follows:—

Test messages— $\frac{5}{8}$ of a mark for each correct letter (see tables on reverse of test-message cards).

Spelling messages—Two marks for each correct word or group of figures.