

12. The block-letter tests and spelling messages as read by the candidate must be forwarded on Form Exn. 19A, together with the percentage of marks allotted and Examiner's report on Form Exn. 19B, to the Principal Examiner, with any remarks the Examiner may have to add with respect to the examination.

13. *Extra Master*.—Candidates must attain the following minimum speeds in words per minute: Morse lamp-flashing, 10; Morse flag-waving (the average length of a word being taken as five letters), 6; and semaphore, 12.

14. The lamp-flashing and flag-waving tests will in each case, both in making and reading, be a test message (see "Allied Signal Manual"), followed by a spelling message of 25 words.

15. The semaphore test will, both in making and reading, be a spelling message of 50 words.

16. *Degree of Accuracy*.—At least 90 per cent. of the maximum of marks in lamp-flashing, flag-waving, and semaphore, both in making and reading in each method, must be attained.

17. *Lower Grades*.—In lamp-flashing, candidates must attain a speed of 6, in flag-waving 5, and in semaphore 10, words per minute. The tests, both in making and reading, will be—

Lamp-flashing—A test message, followed by a spelling message of 10 words.

Flag-waving—A spelling message of 10 words.

Semaphore—A spelling message of 25 words.

18. *Degree of Accuracy*.—In lamp-flashing and flag-waving an aggregate of at least 90 per cent. of the maximum marks in both the test and spelling messages must be attained. In semaphore 90 per cent. of the maximum must be attained.

19. NOTE.—The "International Code of Signals," also the "Signal Letters of British Ships," is prepared by the Registrar-General of Shipping and Seamen, and these, also the "Official Mercantile Navy List and Maritime Directory," may be obtained from the publishers, Messrs. Spottiswoode, Ballantyne, and Co., 1 New Street Square, London E.C. 4, and the principal booksellers at the various ports. The "Allied Signal Manual" may be obtained through any bookseller or directly from H.M. Stationery Office.

APPENDIX E.

WIRELESS SIGNALLER.

176. **Instructions to Holders of Certificates of Competency, and to Intending Candidates for their First Home-trade Certificate of Competency**.—1. Every candidate for a home-trade certificate, on every occasion on which he presents himself for examination for his first certificate of competency, will be required to produce a certificate in the form of an "Examiner's authority" issued by the Minister of Telegraphs to the effect that he has "passed examination for wireless signaller":

Provided, however, that if such candidate holds a valid certificate as wireless operator of any grade issued by the Minister of Telegraphs, or its equivalent, such certificate will be accepted in lieu of an Examiner's authority, and he will not be required to submit himself for examination for wireless signaller.

2. The Examiner's authority must be obtained by the candidate when seventeen and a half years of age or more, and the examination for it must have been passed not more than one year before the date of examination for a certificate of competency.

3. A candidate for examination who does not possess a certificate as wireless operator issued by the Minister of Telegraphs, or its equivalent, should, some time before he wishes to sit for a certificate of competency, apply to a District Telegraph Engineer, who will inform him when and where the examination for wireless signaller may be held.

4. The examination for wireless signaller will be for one grade only, and will be conducted as is prescribed by the Minister of Telegraphs.

The examination will not be of a technical nature, but will be confined to a practical knowledge of how to manipulate the transmitting and receiving apparatus and its appurtenances, and the care and attention of the equipment necessary to produce its efficient operation.