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ADMIRALTY FLEET ORDERS

**V/S, W/T AND CODER RATINGS—TRAINING AND
ADVANCEMENT DURING WAR.**

**V/S AND W/T RATINGS—REVISED STANDARD
BUZZER EXERCISES.**

ADMIRALTY, S.W.1,
25th February, 1943.

The following Orders having been approved by My Lords Commissioners of the Admiralty are hereby promulgated for information and guidance and necessary action.

By Command of their Lordships,

H. V. Markham

*To all Commanders-in-Chief, Flag
Officers, Senior Naval Officers,
Captains and Commanding Officers
of H.M. Ships and Vessels, and
Commanding Officers of H.M.
Naval Establishments concerned.*

NOTE:—The scale of distribution is shown in the Admiralty Fleet Order Volume, 1941, Instructions, paragraph 10.

A.F.O. 256/45
885.—V/S, W/T and Coder Ratings—Training and Advancement During War

(N. 26807/42.—25.2.1943.)

In order to simplify the regulations governing the training and advancement of ratings of the Communications Branch at the present time, the instructions contained in various A.F.Os., etc., are condensed in the following tables :—

TABLE I—SUBSTANTIVE ADVANCEMENT

- (A) Authority to give rating.
(B) Previous service and other qualifications required.
(C) Nature of examination.
(D) Examining Officers.
(E) Lowest rating to which may be disrated or reduced for punishment.
(F) Remarks.

V/S and W/T Ratings

Signal Boy and Boy Telegraphist.	See K.R. & A.I., Appendix XVII, Part 1.
Ordinary Signalman and Ordinary Telegraphist.	See K.R. & A.I., Appendix XVII, Part 1 (but for syllabus of professional examination for Accelerated Advancement, see Table III).
Signalman and Telegraphist.	<p>(A) Captain.</p> <p>(B) C.S. men six months' minimum service, all other ratings nine months' minimum service (including new entry Training Course), as ordinary signalman and ordinary telegraphist. In the case of R.N.V.R. ratings only mobilised service and previous service in the R.N. other than training time will be allowed to count. Must have passed the professional examination.</p> <p>(C) See Table III. Ratings who fail in this examination are to wait not less than one month after the first failure and not less than two months after the second and subsequent failures before they may apply for re-examination.</p> <p>(D) The examination is to be conducted by a qualified "S" Officer (including those employed on General Service), an R.N.V.R. "S" Officer or Communications Lieutenant of the appropriate branch; or, if one is not available, by a Commissioned or Warrant Officer of the appropriate branch, an Air Signal Officer or a Station Officer.</p> <p>(E) Cannot be disrated for punishment.</p> <p>(F) Ratings should be given earliest opportunity of passing the professional examination. In the event of a man not having an opportunity to pass through no fault of his own until after the minimum period of service, the date of passing may be antedated by his Commanding Officer to such date as he considers appropriate. The examination for the non-substantive rating of Trained Operator may be taken at any time after having qualified professionally for Signalman or Telegraphist and rating may be held at any time after having been rated Signalman or Telegraphist. (For examination see Table III.)</p>

Signalman and Telegraphist
—contd.

Any rating who fails to pass for Trained Operator on reaching four years' seniority as Signalman or Telegraphist is to be reported to the Commander-in-Chief, who, if he considers that the man is not likely to pass for the rate within a reasonable period, will forward particulars to the Admiralty together with the rating's S.C., H.S. and Conduct Sheet. A decision will then be given as to the man's discharge from the Service, his optional transfer to another branch, or his retention as a Signalman or Telegraphist.

Leading Signalman and Leading Telegraphist.

- Temporary Advancement. (A.F.O. 400/40.)†*
- (A) Commanding Officers of Captain's rank. (See A.F.Os. 432/42 and 6376/42.)
(B) Six months' service as Signalman or Telegraphist and recommended from sea. (See General References (4).)
(C) Must be passed for the No. 3 non-substantive rate either lower or higher standard. (See Tables II and III.)
(D) See Table II.
(E) Signalman or Telegraphist.
(F) Ratings advanced on a temporary basis are eligible to be examined for higher rating while holding the temporary rate. (A.F.O. 2465/40.)†
Ratings advanced to Leading Signalman or Leading Telegraphist are also to be granted the non-substantive rate of V/S 3 or W/T 3 respectively.

Permanent Advancement. (A.F.O. 400/40.)†

- (A) Commodore of Depot. (See K.R. & A.I., Article 412.)
(B) Either (i) passed for the No. 3 non-substantive rate higher standard and two years' seniority as Signalman or Telegraphist, but excluding any seagoing service requirements and must possess Educational Certificate Part 1; or (ii) passed for the No. 3 non-substantive rate lower standard and three years' seniority as Signalman or Telegraphist including one year's seagoing service (see General References (4)), and must possess Education Certificate Part 1.
(C) Must be passed for the No. 3 non-substantive rate, either lower or higher standard (see Tables II and III).
(D) See Table II.
(E) Signalman or Telegraphist.
(F) Ratings advanced to Leading Signalman or Leading Telegraphist are also to be granted the non-substantive rate of V/S 3 or W/T 3 respectively.

Yeoman of Signals and Petty Officer Telegraphist.

- Temporary Advancement. (A.F.Os. 400/40 and 4372/40.)†*
- (A) Commanding Officers of Captain's rank. (See A.F.Os. 432/42 and 6376/42.)
(B) Fit to take charge of the Signal Department of a ship not allowed a C.Y.S. or C.P.O. Telegraphist respectively. One year's seniority in Leading rate, including acting time, and a minimum total of one year's sea service in all ratings. (See General References (4).)
(C) Must be passed for No. 2 non-substantive rate either lower or higher standard. (See Tables II and III.)
(D) See Table II.
(E) Signalman or Telegraphist.
(F) Special Service ratings are eligible for temporary advancement to Petty Officer and Chief Petty Officer rates, without transferring to continuous service, but they are not eligible for permanent advancement to those rates. (A.F.O. 3299/40.)†

† Not in Annual Volume.

Yeoman of Signals and Petty Officer Telegraphist — <i>contd.</i>	<p>Ratings advanced to Yeo. of Sigs. or P.O. Tel. are also to be granted the non-substantive rate of V/S 2 or W/T 2 respectively.</p> <p><i>Permanent Advancement. (A.F.O. 400/40.)†</i></p> <p>(A) Commodore of Depot. (See K.R. & A.I., Article 412.)</p> <p>(B) As above, but in the case of ratings who have only passed the lower standard examination, two years' seniority in the Leading rate, including one year's seagoing service. (See General References (4).) Must possess Educational Certificate Part 1.</p> <p>(C) As above.</p> <p>(D) See Table II.</p> <p>(E) As above.</p> <p>(F) As above.</p>
Chief Yeoman of Signals and Chief Petty Officer Telegraphist	<p>(A) Commodore of Depot. (See K.R. & A.I., Article 412.)</p> <p>(B) Fit to take charge of Signal Department of a capital ship. Three years' seniority as Petty Officer, including one year's seagoing service. (See General References (4).) Must hold the No. 2 non-substantive rate higher standard. For permanent advancement must possess Educational Certificate Part 1.</p> <p>See Note below.</p> <p>(C) None.</p> <p>(D) None.</p> <p>(E) Signalman or Telegraphist.</p> <p>(F) Special Service ratings are eligible for temporary advancement to Petty Officer and Chief Petty Officer rates, without transferring to Continuous Service, but they are not eligible for permanent advancement to those rates. (A.F.O. 3299/40.)†</p>

Note.—Recommendations for advancement on Form S.507 are no longer required in respect of advancements to Leading and Petty Officer rates of the communications branch. Recommendations for advancement to C.Y.S. and C.P.O. Telegraphist are to be continued to be rendered on Form S.507 in accordance with A.F.O. 945/40.†

Men who are permanently medically unfit for General Service may not be advanced. (See A.F.O. 3209/42.)

A man who is suffering from venereal disease may not be advanced.

All war advancements above Signalman or Telegraphist of Pensioners, Reservists and H.O. ratings and time-expired men, will be temporary advancements.

Coder Ratings

Ordinary Coder.	<p>The Coding Branch is to consist of "Hostilities Only" ratings of a type similar to Telegraphist, Signalman and Writer recruits.</p> <p>Ordinary Coders will be selected from "Hostilities Only" recruits who are not visually fit for the seaman and signal branches, and preferably from those whose civilian employment is of a clerical character. Transfers from other branches will only be allowed on medical grounds.</p> <p>The medical standard is the same as that laid down for Writers, and men who have failed to secure entry in other branches on account of defective colour vision may be offered the opportunity of volunteering for the Coding branch.</p> <p>They will carry out one week's Joining and Kitting-up routine at the R.N. Barracks, Devonport, after which they will be sent to H.M.S. "Cabbala" for 12 weeks' training.</p>
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† Not in Annual Volume.

Ordinary Coder— <i>contd.</i>	The standards of knowledge required on passing out of the New Entry Training Establishment are shown in Table III.
Coder.	<p>(A) Commanding Officer.</p> <p>(B) Minimum nine months, maximum 15 months' service as Ordinary Coder (including training course). To be recommended by Commanding Officer.</p> <p>(C) None.</p> <p>(D) None.</p> <p>(E) Cannot be disgraced for punishment.</p>
Leading Coder.	<p>(A) Commodore of Depot.</p> <p>(B) Six months' service as coder. (No sea service qualifications required.)</p> <p>(C) Examination is to be held locally and is to consist of two written examinations:—"Coding Instructions" and "Practical Coding". Eighty per cent. marks will be required to qualify. Examination papers are to be set locally. For standards of knowledge required see Table III. Ratings who fail in this examination are to wait not less than three months after the first failure, and not less than six months after the second or subsequent failures before they may apply for re-examination.</p> <p>(D) The examination is to be conducted as directed by Administrative Authorities, by a qualified Signal Officer (including those employed on General Service) or Communications Lieutenant, or, if one is not available, by a commissioned or Warrant Officer of the Communications Branch.</p> <p>(E) Coder.</p>
Petty Officer Coder.	<p>(A) Commodore of Depot.</p> <p>(B) One year's seniority as Leading Coder (including acting time). One year's sea service as Ordinary Coder, Coder and Leading Coder combined. Must have passed the professional examination.</p> <p>(C) The examination (which may be taken at any time after advancement to Acting Leading Coder) is to be held locally and is to consist of two written examinations, "Coding Instructions" and "Practical Coding," and an oral examination on S.D.O. and C.C.O. work generally. Eighty per cent. marks will be required to qualify. Examination papers are to be set locally.</p> <p>For Standards of Knowledge required, see Table III.</p> <p>Ratings who fail in this examination are to wait not less than three months after the first failure and not less than six months after the second or subsequent failures before they may apply for re-examination.</p> <p>(D) (As for Leading Coder.)</p> <p>(E) Coder.</p> <p>(F) Petty Officer Coders will be employed in H.M.S. "Cabbala" as instructors as they become available, and will be used to release similar Signal and W/T ratings. They will also be employed afloat for charge of S.D.Os. in Flagships.</p>

Note.—(1) Advancements to Leading Coder and Petty Officer Coder will be regulated by Port Division advancement rosters based on the date of passing. Recommendations for advancement on Form S.507 are not to be rendered. Form B.13 authorising advancements will be issued from depots. If a man is considered unfit for advancement or if he has been reverted for unsuitability, Commanding Officers are to return B.13 to depot with recommendation that the man be brought forward again for advancement in a definite period, which should be not less than six months and may be any time longer. If a man is recommended before the expiration of this period, depot is to be informed at once. Similarly, if a man is

ineligible for advancement owing to character, on receipt of B.13 the form is to be returned to the depot with a statement of date on which man becomes eligible. Conduct sheets of men concerned are to be noted to show (i) the date of advancement brought forward by depot and (ii) period recommended by Commanding Officer during which man will be regarded as being off the roster. (A.F.Os. 4372/40† and 864/42.)

A man who is suffering from venereal disease may not be advanced. The Commanding Officer is to inform the depot when such a man is clear of the disease, when, if recommended, the man will be placed on the advancement roster.

Men who are permanently medically unfit for General Service may not be advanced. (See A.F.O. 3209/42.)

In order that the advancement of ratings shall not be delayed it is most important that Form S.1124 should be rendered to the Commodore of the depot to which rating belongs and to the Captain, H.M. Signal School, immediately on completion of the examination and that the date of passing (see A.F.O. 2972/42) be clearly shown. The instructions contained in A.F.Os. 2972/42 and 4086/42 are also to apply to Coder ratings.

(2) Transfer to the Coding branch from other branches will only be allowed on medical grounds. Ratings transferred from the Signal and Telegraphist branches (except those undergoing their initial V/S or W/T training course) will retain the seniority of their original rating and will not be required to undergo the Ordinary Coders training course. All other ratings will enter the Coding branch as Ordinary Coders and will be sent to "Cabbala" for training but will be allowed to count all previous service towards the service qualification required for advancement to Coder as soon as they are thus qualified, and are considered fit for advancement, and have completed the new entry technical course.

(3) The scale of pay for the Coding branch will be identical with that of the Communications branch, but non-substantive pay will not be allowed.

(4) All Coder ratings will wear the same badge, viz., crossed flags, Pattern 20A (red) or 20B (blue) with the letter "C" below.

GENERAL REFERENCES

(1) Provisional advancements in the absence of Service Certificates (A.F.O. 1752/42).

(2) Periods of V.G. time, etc., necessary for advancement (K.R. & A.I., Article 409, as amended by A.F.O. 4373/40†).

(3) Advancement to Leading and Petty Officer rates to be on an "Acting" basis for minimum period of one year's actual service. (K.R. & A.I., Article 407, A.F.Os. 1756/39† and 863/42.)

Service in a temporary rate (both acting and confirmed) is allowed to count towards the period of acting service required for confirmation in the permanent rate. (A.F.O. 400/40†.)

(4) Service in shore stations abroad, or as Instructor in training establishments to count as sea service. (A.F.Os. 462/38†, 2143/39†, 11/40†.)

Service in shore stations at home to count as sea service for advancement of W/T ratings. (A.F.O. 2017/40†.)

(5) Disrating. (K.R. & A.I., Article 560.) Re-advancement. (A.F.O. 2663/40†.)

(6) Re-advancement after reversion for unsuitability. (A.F.O. 6376/42, paragraph 10.)

(7) Special Service Ratings—Transfer to Continuous Service. (A.F.O. 1155/41†.)

(8) Advancement and re-advancement of Pensioners, Reservists and re-entries. (A.F.Os. 1394/40†, 4/41†, 2121/41† and 4495/42.)

(9) Pensioners and Reservists—Conditions of payment for non-substantive rates when mobilised. (A.F.O. 3025/40.)

(10) Non-substantive ratings, cancellation, etc. (K.R. & A.I., Article 429 and A.F.Os. 494/40, paragraphs 1, 2 and 3 and 6376/42, paragraph 4.)

† Not in Annual Volume.

(11) Grant of difference of pay to ratings required to perform the duties of a higher substantive rating consequent on upgrading of complements. (A.F.O. 1241/42.)

(12) Payment for acting V/S and W/T non-substantive rates to ratings performing the duties of a higher substantive rating. (A.F.O. †409/39, Appendix.)

(13) Progressive pay after one year as Leading rate if passed for Petty Officer. (K.R. & A.I., Appendix XVII, Part I, Nos. 13 and 19 and A.F.O. 3156/39.)

(14) Senior allowance. (A.F.O. 3025/40, paragraph 6.)

(15) Charge Pay to Senior Telegraphist ratings. (A.F.O. 1771/41.)

(16) Promotion to Warrant Rank during War. (A.F.Os. 2766/40, 1107/40 and 3610/42.)

Note.—Unnecessary enquiries are frequently received as to a rating's prospects of promotion or selection for course.

It is pointed out that there are no rosters for Warrant Rank and as each new commitment arises all recommended candidates are considered by a Selection Board.

Other Ratings Connected with the Communications Branch

Telegraphists (S.O.)	...	...	See C.A.F.O. 1230/41 and A.F.O. 456/42.
Convoy Signal Section	...	...	See A.F.Os. 3296/40, 4754/40, 4124/41.
Teleprinter Operators	...	...	See A.F.Os. 2023/40, 2475/40† and 2015/41.
Automatic Morse Operator	...	...	See A.F.O. 1749/42.
Radio Mechanic Branch	...	...	See A.F.O. 2214/42.
H/F D/F Ratings	...	...	See C.A.F.O. 1881/42.

TABLE II.—NON-SUBSTANTIVE ADVANCEMENT

- (A) Authority to grant non-substantive rating.
- (B) Candidates eligible.
- (C) Examining Officers.*
- (D) Failures
- (E) Remarks.

* The term "qualified 'S' Officer" does not include R.N.V.R. Officers.

Trained Operator	(A) Commanding Officer.
	(B) Examination may be taken at any time after having qualified professionally for Signalman or Telegraphist and rating may be held at any time after being rated Signalman or Telegraphist. There are no courses for the non-substantive rate of Trained Operator V/S or W/T.
	(C) The Examination is to be conducted by a qualified "S" Officer (including those employed on General Service) an R.N.V.R. "S" Officer or Communications Lieutenant of the appropriate branch, or, if one is not available, a Commissioned or Warrant Officer of the appropriate branch, or an Air Signal Officer.
	(D) Ratings who fail in this examination are to wait not less than one month after the first failure and not less than two months after the second and subsequent failures before they may apply for re-examination.
	(E) Any rating who fails to qualify on reaching four years' seniority as Signalman or Telegraphist is to be reported to C.-in.-C. (See Table I, Signalman or Telegraphist (F).)

† Not in Annual Volume.

V/S 3 and
W/T 3

- Lower Standard.* (A.F.Os. 1372/39†, 1508/39† and 2360/39†.)
- (A) Commanding Officers of Captain's rank. (See A.F.O. 6376/42, paragraph 4.)
- (B) Examination may be taken at any time after having qualified for Trained Operator.
- (C) The examination is to be conducted as directed by Administrative Authorities, by a qualified Signal Officer (including those employed on General Service), or Communications Lieutenant of the appropriate branch, or, if one is not available, by a Commissioned or Warrant Officer of the appropriate branch.
- (D) Ratings who fail in this examination are to wait not less than three months before they may apply for re-examination. A second and subsequent failure is to entail a further delay of six months.

Higher Standard

- (A) As above.
- (B) As above.
- (C) The examination is to be conducted by a qualified Signal Officer.
- (D) As above, but ratings who fail for the first time without a course will not be precluded from being accepted immediately for a course (see Note (1) below) and in such cases the three months' delay is waived.
- (E) The examination may be taken without undergoing the qualifying course.
- If, however, a rating is desirous of first undergoing the course and is recommended, and can be spared without relief, he should be sent to the nearest Signal School in accordance with the instructions contained in Note (1) below.

V/S 2 and
W/T 2.

- Lower Standard.* (A.F.Os. 1372/39†, 1508/39†, 2360/39†.)
- (A) Commanding Officers of Captain's rank. (See A.F.O. 6376/42, paragraph 4.)
- (B) Leading rates, and Signalmen or Telegraphists of not less than six years' seniority, who hold the No. 3 non-substantive rate higher standard.
- (C) The examination is to be conducted, as directed by administrative authorities, by a qualified Signal Officer (including those employed on General Service) or Communications Lieutenant of the appropriate branch, or, if one is not available, by a Commissioned or Warrant Officer of the appropriate branch.
- (D) Ratings who fail in this examination are to wait not less than three months before they may apply for re-examination. A second and subsequent failure is to entail a further delay of six months.

Higher Standard

- (A) As above.
- (B) As above.
- (C) The examination is to be conducted by a qualified Signal Officer.
- (D) Ratings who fail in this examination are not to be re-examined for 10 months.
- (E) The examination is held at the conclusion of a qualifying course of eight weeks' duration for W/T 2's and six weeks' duration for V/S 2's. (See Note (1) below.)
- It is emphasised that before a rating can take the examination for V/S 2 or W/T 2 (either Higher or Lower Standard) he must first qualify for the No. 3 rate, Higher Standard.*

† Not in Annual Volume.

V/S 1 and
W/T 1.

- (A) Commodore of Depot.
- (B) Courses for V/S 1 and W/T 1 are in abeyance. As a temporary measure, the arrangements detailed in A.F.Os. 3016/40 and 3021/41 have been brought into force in regard to the recommendation of ratings and the granting to them of these non-substantive rates.
- (C) None.
- (D) None.

Note.—(1) *Qualifying Courses at Home.*—(a) Qualifying Courses for V/S 2 and W/T 2, Higher Standard, will be held in H.M.S. "Mercury".

Qualifying Courses for V/S 3 and W/T 3, Higher, Standard at home will be held in H.M.S. "Mercury" and at Devonport and Chatham Signal Schools. Owing to the acute shortage of Communication ratings it is not possible to provide reliefs in order that candidates for these courses may be selected according to their position on the roster. These rosters have, therefore, been suspended for the period of hostilities and Forms S.1303a are not to be rendered except in the case of recommendations for the granting of V/S 1 and W/T 1 non-substantive rates. (See A.F.Os. 3016/40 and 3021/41.)

(b) Commanding Officers of ships refitting in Home Waters are to take full advantage of the time available to send all ratings who are eligible and are recommended, to H.M.S. "Mercury" or the nearest Signal School for these courses, the commencing dates of which are promulgated periodically in Admiralty Fleet Orders. H.M.S. "Mercury" or the depot concerned should be informed as much in advance as possible of the intention to send ratings for courses, by letter when time permits, or by signal. These letters and signals will not be replied to unless it is inconvenient to accept a candidate.

(c) Ratings are to be lent, "victuals only" for the period of the course and their History Sheets, and Forms S.264 only, should accompany them. Ratings sent to H.M.S. "Mercury" should travel to Petersfield Station, their E.T.A. being reported so that onward transport may be arranged.

(d) In addition, any ratings who at any time can be spared without relief and who are eligible and recommended for the No. 2 and No. 3 courses should be dealt with in a similar manner.

(2) *Date of passing Examinations.*—(a) The date on which ratings apply to be examined professionally for higher rating without a course, is to be their date of passing and if it differs from the actual date of examination is to be shown in the last column of Form S.1124 or S.1124a, and is to be the date shown in column 1 of the rating's History Sheet.

Commanding Officers must ensure that the date on which ratings apply to be examined professionally for higher rating, without a course is noted in Section VIII or Section IX of their Signal or Wireless History Sheets respectively. When this document is not immediately available, ratings are to be given a signed statement showing the date of such application and this statement is to be handed to the examining officer by the candidate when he presents himself for examination. Ratings should be warned that without this information examining officers are unable to award a passing date other than the actual date of examination.

(b) The basic date for examinations held after a qualifying course is to be the first day of the month nearest to the actual date of completion of examination, or, in cases where this is equidistant, the first day of the month in which the examination takes place.

(c) The "date of application" is only to be used as the "date of examination" in the case of ratings who pass. The date to be shown in the case of failures is the actual date of the examination and in this case ratings are required to make a fresh application for examination.

(3) *Return of Ratings Examined*—Forms S.1124 and S.1124A.—In order that the advancement of ratings shall not be delayed it is most important that Forms S.1124 should be rendered to the Commodore of the Depot to which rating belongs, the Commanding Officer of the ship in which he is serving, the Captain, H.M. Signal School,

Portsmouth (and where applicable to A.C.R. or other authority) immediately on completion of the examination (see A.F.O. 432/42), and that the passing date (see Note 2 above) be clearly shown.

Other References

(1) R.N.V.R. and R.N.V.(W.)R. ratings no longer to be examined for, or awarded, non-substantive rates under Reserve Regulations. (A.F.O. 1400/40†.)

(2) Granting of non-substantive rates. (A.F.O. 494/40†, paragraphs 1, 2 and 3 and A.F.O. 6376/42, paragraph 4.)

(3) Ratings on passage—Training.....(A.F.O. 2125/42.)

TABLE III—STANDARDS OF KNOWLEDGE AND PASSING PERCENTAGES

The standards shown for V/S 3 and W/T 3, V/S 2 and W/T 2, are those for the higher grade. Examinations for the lower grade will be entirely oral, but the standard to be aimed at will be that of the higher grade, except that in subjects where the examinee has been unable to obtain access to the necessary publications and material, a lower standard in those subjects can be accepted.

The significations of the letters, A, B and C, are as shown in Articles 253 to 268 of Signal Training Instructions. (O.U. 6290/1937.)

V/S Ratings

Summary

A Signaller or T.O. V/S will be required to have the following standard of practical ability :—

- (i) High standard of operating in Visual Signalling (including knowledge of all V/S procedures), and able to read S.B.I.
- (ii) Working knowledge of simple manoeuvres.
- (iii) Working knowledge of codes normally used by V/S.
- (iv) Working knowledge of V/S material.

A V/S 3 will be required to have practical ability as for T.O. and in addition :—

- (i) Good practical ability in coding and decoding.
- (ii) Working knowledge of all manoeuvres.
- (iii) Full knowledge of V/S material.

A V/S 2 will be required to have ability as for T.O. and V/S 3 and in addition :—

- (i) General knowledge of C.O.F. with detailed knowledge of certain portions.
- (ii) Detailed knowledge of all forms of coding and decoding.

Fleetwork	Acc. Adv.	Sig.	T.O.	V/S 3	V/S 2
Instructions for the use of Books (C.O.F. X1-X3).	B	B	B	A	A
Instructions for the use of F.S.B. (F.S.B. 1-8)	B	B	B	A	A
Colours of Flags and Pendants (Naval Code)	A	A	A	A	A
Flags, Pendants and Shapes (F.S.B. 10-105)	B	A	—	—	—
Detailed uses of Flags, Pendants and Shapes (F.S.B. 10-105 including references).	—	—	B	A	A
Interservice Pyrotechnic Code ...	C	B	B	A	A
Principal Distinguishing Signals and Description Signals (F.S.B. 107-13, 115-6).	B	B	B	A	A
Fleet Numbers (C.O.F. 63-5; F.S.B. 114) ...	C	A	A	A	A
Organisation of a Fleet (C.O.F. Ch. 2) (see also V.S.I. Ch. 16).	C	C	B	A	A
Entering and Leaving Harbour :—					
(i) C.O.F. 81, 83, 84 ...	—	—	—	B	A
(ii) C.O.F. 85, 90 ...	—	—	—	B	B
(iii) C.O.F. 89, 92 ...	—	—	—	—	B

† Not in Annual Volume.

Fleetwork—contd.	Acc. Adv.	Sig.	T.O.	V/S 3	V/S 2
Formation, Disposition and Order Signals (F.S.B. 117-20).	B	A	A	A	A
Forming and Disposing Signals (F.S.B. 121-2)	B	A	A	A	A
Forming up a Unit (C.O.F. Ch. 5) ...	B	A	A	A	A
Equal Speed Signals (F.S.B. 123-32; C.O.F. 230-6).	C	C	C	B	B
Changing the Order of a Unit :—					
(i) C.O.F. 220-5 ...	—	—	C	B	A
(ii) C.O.F. 226-9 ...	—	—	—	C	B
Altering Course and Speed of a Unit (F.S.B. 133-42; C.O.F. Ch. 8).	C	B	B	A	A
Altering Course of Fleet as a whole :—					
(i) C.O.F. Ch. 12 less 404 and 407 and F.S.B. (ii) C.O.F. 404 ...	—	—	—	B	A
Stationing Signals (F.S.B. 143; C.O.F. 281)	C	B	B	A	A
Stationing and Spreading :—					
(i) C.O.F. 280, 282-7, 293, 298 ...	—	—	—	B	A
(ii) C.O.F. 288-92, 294-7, 299 ...	—	—	—	C	B
F.S.B. Tables :—					
(i) Arts. 148-53 (a), 155-6, 167-70, 178-9, 186-93, 198-9, 202-3, 206-8.	C	C	B	A	A
(ii) Arts. 154, 159-66, 174-7, 180-1, 194-7, 204-5, 209-10.	—	—	—	C	B
Definitions :—					
(i) Principal (C.O.F. Ch. 1, S.T.I. App. 1)...	C	C	B	A	A
(ii) Remaining (C.O.F. Ch. 1) ...	—	—	—	B	A
General Conduct of the Fleet at Sea :—					
(i) C.O.F. 100, 102-3, 122-4, 129-30, 132, 134, 137, 139-40, 161.	—	C	C	A	A
(ii) C.O.F. 108-10, 112, 115-6, 120, 125, 127, 138, 143-5, 150, 157, 162-3, 165, 173-4.	112-B 173-C	C	B	A	A
(iii) C.O.F. 105-6, 113, 131, 133, 141, 151, 164, 171.	—	—	—	C	B
(iv) C.O.F. 117, 119, 135-6, 166, 175 ...	—	—	—	—	C
Conduct of Screens :—					
(i) C.O.F. 330, 336-7, 338 (b), 351-8, 362-7, 374 (a).	—	—	—	B	A
(ii) C.O.F. 344-8; Ch. XI, Part II ...	—	—	—	C	B
(iii) C.O.F. Ch. XI, Part IV (less 374 (a)); Part V.	—	—	—	C	C
Action Manoeuvring :—					
(i) Deployment Pendant (F.S.B. 144; C.O.F. 424-5).	C	C	C	C	A
(ii) Loose Formation (F.T.I. 216; H.W.C.O. App. V) 435.	—	—	C	B	A
(iii) C.O.F. 420-2 ...	—	—	—	C	B
(iv) C.O.F., Ch. XIII, less 420-2, 424-5, 435	—	—	—	—	C
Cruising Orders :—					
(i) C.O.F. 200-7, 212, 219) ...	—	—	—	C	B
(ii) C.O.F. 213-8 ...	—	—	—	—	C
Cruising Dispositions :—					
(i) C.O.F. 310, 312-21, Cruising Disposition Nos. 1, 12; Night Cruising Disposition No. 1.	—	—	—	C	B
(ii) Other Cruising Dispositions ...	—	—	—	—	C
Special Signals for various occasions :—					
(i) G.S.I. Ch. 18, less 576, 585, 588 (c), 594, 601-2, 608, 610-1, 615-7, 625-9.	C	C	C	B	A
(ii) C.S.I. 588 (c) ...	—	—	—	C	C

Fleetwork—contd.	Acc. Adv.	Sig.	T.O.	V/S 3	V/S 2
Mersigs, Vol. I :—					
(i) "W.B.A." 2-4, 7-11, 38, 40-2, 44-50, 52-3, 56 (c), 60, 65, 69, 70.	—	—	C	B	A
(ii) 12-3, 5-6	—	—	—	B	B
(iii) 14, 63-4, 68	—	—	—	C	C
Particular Instructions for Destroyers :—					
(i) C.O.F. 468-71	—	—	—	B	B
(ii) C.O.F. 480-510	—	—	—	C	C
Search and Patrol (C.O.F. Ch. 18)	—	—	—	—	C
A.V.S.B. :—					
(i) Parts I and II (matter included in C.O.F. and F.S.B.).	As for similar articles in C.O.F. and F.S.B.				
(ii) Part II (matter not included in C.O.F. and F.S.B.).	—	—	—	C	B
(iii) Arts. 158-61	—	—	—	C	B
(iv) Minelaying (Ch. IX)	—	—	—	—	C
(v) Minesweeping Appendix	—	—	—	C	C
D.C.G. :—					
(i) App. B; Table D	—	—	—	C	A
(ii) Ch. 1, Ch. 2, Ch. 3; remainder of App. B.	—	—	—	C	C

Procedure	Acc. Adv.	Sig.	T.O.	V/S 3	V/S 2
Phonetic Alphabet (G.S.I., Art. 110 and App. I.)	A	A	A	A	A
Preparing a Message for Transmission, Ch. 1.	C	B	A	A	A
Identity of a Message, Ch. 2	B	A	A	A	A
Procedure and Operating Signals 26-30.	A	A	A	A	A
Procedure and Operating Signals 31	B	B	A	A	A
Use of Letter Procedure Signals, Ch. 4.	B	A	A	A	A
Verifications and Checks, Ch. 5	C	B	A	A	A
Morse Code, Ch. 6	A	A	A	A	A
Special Morse Signs, Ch. 7	A	A	A	A	A
V/S Organisation of a Fleet, Ch. 8	—	C	B	A	A
General Instructions for repeating, Ch. 9.	—	C	B	A	A
Signalling by Flashing, Ch. 10	B	B	A	A	A
Signal Lanterns, Ch. 11	C	C	B	A	A
Signalling by Morse Flag, Ch. 12	C	C	B	A	A
Signalling by Sound :—					
(i) 220-3, 230-6	—	C	B	B	A
(ii) 224-8, 234-5, 237	—	C	C	B	B
Signalling by Semaphore, Ch. 14	C	B	A	A	A
Signalling by Flags, Ch. 15	C	C	C	A	A
Organising a Fleet by Flags, Ch. 16	—	—	C	A	A
Signalling by V/S to Aircraft, Ch. 17	—	A	A	A	A
Signalling by Telephone, Ch. 18	A	A	A	A	A
Guns, Rockets, etc., Ch. 19	C	B	A	A	A
Exercises, Ch. 20	—	—	—	C	B
Interservice V/S Instructions, Ch. 21	—	—	C	C	C
International Code :—					
(i) Chs. I-VI, VIII	—	C	B	B	A
(ii) Ch. VII	—	—	C	C	B
Mersigs, Vol. I, Part 4, less Arts. 101, 102, 104-6.	—	C	B	A	A
D.C.G., 204-5, 216-8, 237, 372-8	—	—	—	—	C
A.V.V.S.I.	As for similar articles in V.S.I.				

Coding Instructions	Acc. Adv.	Sig.	T.O.	V/S 3	V/S 2
Definitions :—					
(i) G.S.I. 1-7, 9, 11, 16-20, 22, 26, 28-30, 33, 38-51, 54-9, 61-70, 73, 76.	—	A	A	A	A
(ii) G.S.I. 8, 32, 35-7, 52-3, 60, 71, 74, 75	—	C	C	B	B
(iii) G.S.I. 15, 21	—	—	—	C	C
(iv) N.C.C.S., Part I, Paras. 1, 9-13	—	—	C	B	A
General Instructions :—					
(i) G.S.I. 92, 107-10	A	A	A	A	A
(ii) G.S.I. 86, 90-1, 93-100, 111-2	—	—	C	B	A
(iii) G.S.I. 87-89, 101, 102, 105	—	—	—	C	B
Initiating and Drafting Messages :—					
(i) G.S.I. 120, 125-39A, 141, 143, 147-54, 157-9, 160-1, 164-5.	—	—	C	B	A
(ii) G.S.I. 121, 124, 142, 146, 155, 168; N.C.C.S., Part 2, Para. 14	—	—	C	B	B
(iii) G.S.I. 122-3, 156	—	—	—	C	C
Duties of Cypher and Coding Staffs and Classification of Messages :—					
(i) C.I. 1-2	—	C	C	A	A
(ii) A.F.O. "S" 140/42, Paras. 1-3, 6, 8, 9, 14 (a), 16.	—	—	B	A	A
(iii) A.F.O. "S" 140/42 Remainder	—	—	C	C	C
Preparing Messages for Despatch :—					
(a) Instructions to Coding Staff :—					
(i) C.I. 7-8, 17-21; N.C.C.S. Part I, Paras. 12, 16, 17.	—	—	C	B	A
(ii) C.I. 9, 11, 22-9	—	C	C	B	B
(b) Instructions to Communication Dept. :—					
(i) C.I. 43-6, 49	—	—	—	C	B
(ii) C.I. 47-8; N.C.C.S. Part I, Paras. 18-24.	—	—	—	—	C
Selection of Cypher or Code :—					
(i) N.C.C.S. Part IV, Paras. 8-13, 18-26; App. E.	—	—	—	C	B
(ii) C.I. 31-2, 38; N.C.C.S. App. B	—	—	—	C	C
Systems of Transmission :—					
(i) G.S.I. 175-8	—	C	B	A	A
(ii) G.S.I. 186, 188	—	—	C	C	B
(iii) G.S.I. 185, 187; D.T.N. Instructions	—	—	—	C	C
Routeing Messages :—					
(i) G.S.I. 190-3, 205	—	—	—	B	A
(ii) G.S.I. 194-6, 199 (g) to (k)	—	—	—	C	B
(iii) G.S.I. 199 (a) to (f), 200, 204	—	—	—	—	C
Decyphering and Decoding :—					
(i) C.I. 55-8	—	—	—	B	A
(ii) C.I. 59-62	—	—	—	C	B
Verifications and Checks :—					
(i) C.I. 66; N.C.C.S. Part 2, para. 12	—	—	—	B	A
(ii) C.I. 70, 74-6	—	—	—	C	B
(iii) C.I. 72-3	—	—	—	C	C
General Messages :—					
(i) G.S.I. 210, 211 (a) to (g) and (m), 213	—	C	B	A	A
(ii) G.S.I. 211 (h) to (l), 212, 213A, 214	—	—	—	C	C
Enemy Reporting :—					
(i) G.S.I. 215-9, 222-7; C.O.F. 555, 557-65, 571-2, 574 (g) to (k), 578, 580-6, 588-9, 591.	—	C	C	B	A
(ii) C.O.F. Remainder of Ch. XVII, Part I; Mersigs Vol. I, Art. 105; Code Word Appendix.	—	C	C	B	B
(iii) G.S.I. 221; C.O.F. Ch. XVII, Part II	—	—	—	C	C

Coding Instructions— <i>contd.</i>	Acc. Adv.	Sig.	T.O.	V/S 3	V/S 2
Distress :—					
(i) G.S.I. 240 (d) and (e), 243, 247; Mersigs, Vol. I, Art. 106.	—	—	C	B	A
(ii) G.S.I. 240 (a) to (c), 244 (b) ...	—	—	—	C	B
(iii) G.S.I. 242 ...	—	—	—	C	C
Miscellaneous Instructions :—					
(i) Change of Recoding Tables—N.C.C.S., App. C.	—	—	—	C	B
(ii) Care and Custody of S.Ps.—G.S.I. X1-X7.	—	C	B	A	A
(iii) Disposal of S.Ps. in emergency—N.C.C.S. App. D.	—	—	C	B	B
(iv) "Do's and Don't's"—N.C.C.S. Part VII	—	—	—	C	B
(v) A.I.Gs.—C.I. 81-4 ...	—	—	—	C	C
(vi) Meteorological Messages—C.I., Ch. IX	—	—	—	C	C
(vii) List of Navy S.G.A., S.H.A. Numbers ...	—	—	C	C	B

Practical Coding	Acc. Adv.	Sig.	T.O.	V/S 3	V/S 2
F.S.B. ...	B	B	B	A	A
Fleet Code and Decode ...	C	B	B	A	A
Naval Code and Recoding Tables and Pads ...	—	C	C	C	B
Naval Aircraft Code ...	—	C	C	B	B
Syko ...	—	C	C	B	B
Pendant List and Supplementary Pendant List	B	A	A	A	A
Operating Signals ...	C	B	A	A	A
Boats Signal Book ...	C	B	B	A	A
Mersigs, Vol. I ...	—	C	C	B	A
A.V.S.B., Part I ...	—	C	C	B	A
International Code, Vol. I ...	—	C	C	B	A
Signal Letters of British Ships ...	—	—	—	C	A
D.Gs. and Callsigns ...	—	—	—	C	B
D.C.G., App. B ...	—	—	C	C	B
Mersigs, Vol. II, used with Vol. I ...	—	C	C	B	B
Mersigs, Vol. II, recoding Tables ...	—	C	C	C	C
Codeword Appendix ...	—	—	—	B	B
Cysquare ...	—	—	—	C	B
A.I.Gs. (A.F.O. "S" 1) ...	—	—	—	C	B
Drill Signal Table ...	—	—	C	C	C
Ship Index, Part I ...	—	—	—	C	C
Aircraft Search Signal Tables ...	—	—	—	C	C
International Call signs of H.M. Ships, etc. (O.U. 5516).	—	—	—	C	C
Interservice Gunnery Code (Ch. 1; Part 1, Ch. II; Parts 2 and 5).	—	—	—	—	C
Type X ...	—	—	—	C	C
M/S Appendix ...	—	—	C	C	C
Playfair Code (N.C.C.S. App. "F") ...	—	—	—	—	C
Small Ships' Code ...	—	C	C	B	B
Ecco Code ...	—	—	—	C	C
Coastal Forces Signal Book ...	—	—	—	C	C

Miscellaneous	Acc. Adv.	Sig.	T.O.	V/S 3	V/S 2
Colours of Flags and Pendants, International Code.	A	A	A	A	A
Pendant List, Boats' Signal Book ...	C	B	B	A	A
International Code, Vol. I ...	C	C	C	B	A
Principal National Flags and Ensigns (S.T.I., App. I).	—	C	B	A	A
Signal Letters, Mercantile Navy List O.U. 5516	—	—	C	B	A
Internal Organisation of V/S Dept. :—					
(i) G.S.I. 470, 481, 486-7, 489, 492, 493 ...	C	B	B	A	A
(ii) G.S.I. Ch. 14; 471-80, 488-91, 494-9...	—	—	—	C	B
Message Organisation :—					
(i) G.S.I. 366-9, 389, 408, 411-5, 417-8, 420-1.	—	—	C	B	A
(ii) G.S.I. 370-3, 390-407, 409, 410, 419, 422-3, 428.	—	—	C	C	B
(iii) G.S.I. 376-88, 424-7, 429 ...	—	—	—	C	C
Recognition—Signals to be expected; Challenge and Identification Procedure.	—	C	C	B	A
VC-VF—Operating ...	—	—	B	A	A
Entry into Defended Ports (Signals only) ...	—	—	C	B	A
Naval Examination Service (Signals only) ...	—	—	—	C	B
Rule of the road, buoys, beacons ...	C	C	C	B	A
Lights carried by vessels ...	C	B	B	A	A
Heliograph ...	—	—	C	C	B
Authorised Abbreviations (G.S.I. App. 2) ...	C	C	C	C	B
Training and Advancement of V/S ratings ...	—	—	—	C	B
Drill Signal Table ...	C	C	C	C	B
W/T Organisation of a Fleet ...	—	—	—	C	C
Principal House Flags and Funnels ...	—	—	C	C	C
V.M.H. :—					
Care of Stores ...	—	—	—	—	—
Verrey Pistols, Telescopes, Binoculars ...	—	—	—	—	—
Making and repairing flags ...	—	—	—	—	—
Dressing Lines ...	—	—	—	—	—
Ormig, Typewriter, Sewing machines ...	—	—	—	—	—
Teleprinters ...	—	—	—	—	—
A.F.Os. "S" Orders ...	—	—	—	—	—

Percentages required in Examinations by V/S Ratings

Subject	Percentages required to Pass				
	Acc. Adv. Ord. Sig.	Sig.	T.O. V/S	V/S 3	V/S 2
Fleet Work	75*	75*	80†	80	80
Mast and Marching Manoeuvres	—	—	—	—	80
Miscellaneous Oral	75*	75*	80	80	80
Procedure	75*	75*	—	80	80
Procedure, Practical	—	—	80	—	80
Coding Instructions	—	—	—	80	80
Practical Coding	70‡	75‡	80‡	80	80
Buzzer (Transmitting)	85	80	80	—	—
Buzzer (Receiving)	90	90	85	—	—
Flashing	95	95	97	97	97
Morse Flag	92	92	96	96	96
Semaphore (Mechanical)	96	96	98	98	98
Semaphore (Hand Flags)	96	96	98	98	98
Educational Examination	50	—	—	—	—

* A combined oral examination.

† An oral examination.

‡ Should also include questions on "Coding Instructions".

W/T Ratings

Summary.—In general, ratings are required to reach the following standards:—

Telegraphist and T.O. W/T—A good operator and coder with a fair knowledge of the W/T apparatus fitted in his own ship and a fair knowledge of W/T organisation in so far as it affects his ship.

W/T 3—A high standard as operator and coder. Fair knowledge of W/T apparatus in general and of W/T organisation. Able to take charge of the W/T department of a destroyer or of a watch in a larger ship.

W/T 2—As for W/T 3, with a good general knowledge of W/T apparatus and a good knowledge of W/T organisation. Able to take charge of the W/T department of a cruiser or larger ship.

NOTE.—Admiralty General Messages, Lettered Messages and "S" orders in force must be studied with each subject to which they are relevant, in addition to the signal publications quoted throughout these tables.

	Organisation	Acc. Adv.	Tel.	T.O. W/T	W/T 3	W/T 2
1	Care and Custody of S.Ps.:— G.S.I., X.1–X.7	C	C	C	A	A
2	Principal Definitions:— S.T.I., App. 1 (c) (ii)	A	A	A	A	A
3	Other Definitions:— G.S.I., Ch. 1, omitting Arts. 7, 17, 30, 51, 59.	—	—	—	A	A
4	Phonetic Alphabet	A	A	A	A	A
5	General Instructions:— G.S.I., 85–90	—	—	—	—	B
6	General Instructions:— G.S.I., 91–3, 99 (a), (b), (d), 100, 102, 107–11.	C	B	B	A	A
7	Use of W/T at Sea:— G.S.I. 309 (a), 311; C.O.F. 553; S.2 (H.W.C.O. section).	C	B	B	A	A
8	World-wide W/T Communications:— G.S.I. 250–6; S.1	—	—	C	B	B
9	External Fleet Communications:— (a) S.1, S.2 (b) W/T organisation of an A.C.H.Q.	C	C	C	B	B
10	Internal Fleet Communications:— G.S.I., Ch. 9, omitting 301–3; S.1, S.2	—	C	C	B	A
11	Communications with R.A.F.:— S.2 and current "S" orders ...	—	C	C	B	A
12	Enemy reporting:— S.2 (H.W.C.O. Section); C.O.F. 556, 592.	C	C	B	B	A
13	Merchant Ships:— (a) S.3, Mersigs 3 (b) G.P.O. "W" orders	—	—	C	B	B
14	Fire Control:— D.C.G., Chs. 1–5, 8, 9; Arts. 200–21, 270–92, App. B, Relevant Fleet Orders.	—	—	C	C	B
15	W/T Hazards and Miscellaneous Orders:— G.S.I. 340–2, 347, 349, 353; Relevant A.F.O. and Fleet Orders.	C	C	B	B	A
16	Internal Ship Organisation:— (a) G.S.I., Ch. 13, omitting Arts. 372, 373, 405, 408, 416, 423. (b) G.S.I. 505–18, 529–37 (c) G.S.I., Ch. 14, Arts. 521–8, Ch. 17.	C	C	C	B	B
		C	C	C	B	A
		—	—	—	C	B

	Organisation—contd.	Acc. Adv.	Tel.	T.O. W/T	W/T3	W/T 2
17	<i>Admiralty General Messages and "S" Orders :—</i>					
	(a) G.S.I., Ch. VI	C	C	C	B	B
	(b) General Messages and "S" orders in force other than those already studied.	—	—	—	C	B
18	<i>A.L.W.S. Berne Lists, etc.</i>	—	—	—	C	C

Line	Procedure	Acc. Adv.	Tel.	T.O. W/T	W/T3	W/T2
1	<i>Full Procedure :—</i> W.S.I., Chs. 1-14, 16, 17, 19 ...	B	B	B	A	A
	Notes :—					
	(a) Omit all paragraphs that concern use of P/L by W/T.					
	(b) W/T 2 and W/T 3 have no instruction in Chs. 1, 2, 3, 6 and 7.					
2	<i>Abbreviated Method :—</i> W.S.I., Ch. 15	B	B	B	A	A
3	<i>Manoeuvring and Rapid Manoeuvring Procedure :—</i> W.S.I., Ch. 20	C	B	B	A	A
4	<i>R/T Procedure :—</i> W.S.I., Ch. 27	B	B	B	A	A
5	<i>W/T Guards :—</i> W.S.I., Ch. 21	C	C	B	B	A
6	<i>Enemy Reporting :—</i> W.S.I., Ch. 18	C	C	B	A	A
7	<i>Commercial Procedure :—</i> W.S.I., Sect. III	C	C	C	C	B
8	<i>Distress :—</i> W.S.I., Ch. 23	C	B	B	B	B
9	<i>Mersigs Procedure :—</i> Relevant Portions of Mersigs 3 ...	—	C	C	B	B
10	<i>Fire Control and Spotting Aircraft Procedure :—</i> D.C.G.	—	—	C	B	A
11	<i>Communication with R.A.F. :—</i> W.S.I., Ch. 25	—	—	—	B	B
12	<i>Communication with Army :—</i> W.S.I., Ch. 26	—	—	—	C	C

Note.—W/T 2's will have a considerably shorter period than W/T 3's in which to do procedure. It should take the form of Practical Procedure, in revision of all the subjects which were learnt for W/T 3.

	Coding Instructions	Acc. Adv.	Tel.	T.O. W/T	W/T3	W/T 2
1	<i>Classification of Messages :—</i> S.140/42	C	B	B	A	A
2	<i>Codes and Cyphers and their Uses :—</i> Notes on Cypher and Code Security.					
	(a) Pts. I, II, VII and App. "B"	C	C	B	A	A
	(b) Pts. IV, V, VI, App. A ...	—	—	—	B	A
	App. C					
	App. E					
	(c) App. D	—	—	—	—	C
	App. F					
3	<i>Initiating and Drafting Messages :—</i>					
	(a) G.S.I. 120-6, 161, 169; C.I. 7-16.	—	C	C	B	B
	(b) G.S.I. 127-34, 136-9A, 157-60, 164, 165; C.I. 17, 23; C.O.F. 591.	C	B	B	B	A
4	<i>Preparing Messages for Despatch :—</i> G.S.I. 3; C.I. 43-6, 81-4; A.I.Gs. in S.1.	—	C	B	B	A
5	<i>Call Signs and their Use :—</i>					
	(a) C.I. 15, 47, 48, 50	C	B	A	A	A
	(b) Merchant Ships' call signs. Mersigs 3.	C	B	B	A	A
	(c) Naval call signs, all types ...	B	B	A	A	A
	(d) Anglo-U.S. call signs; R.A.F. call signs.	—	—	C	B	B
6	<i>Delivery Groups and their Use :—</i> C.I. 24, 49, 50; instructions for use of D.Gs.	C	C	B	A	A
7	<i>Systems of Transmission and Routeing :—</i>					
	(a) G.S.I. 33, 167, 168, 185, 190-6, 199-204.	—	C	C	B	B
	(b) G.S.I. 175-8, 187, 188	—	—	—	C	C
8	<i>Decyphering and Decoding :—</i> C.I. 55-62	—	C	C	B	B
9	<i>Verifications, Checks and Acknowledgments :—</i> C.I. 24, 25, 66-76	—	—	C	B	A
10	<i>Enemy Reporting :—</i>					
	(a) G.S.I. 215-7, 221-5; C.O.F. 550-5.	C	C	B	A	A
	(b) G.S.I. 218-20, 227	—	—	—	C	C
11	<i>L/T Messages :—</i> C.I. 88-133, omitting reference to peace.	—	—	—	C	C
12	<i>Meteorological Messages :—</i> C.I. 140-3 and instruction in Meteorological Code.	—	—	—	B	B
13	General messages and "S" orders in force and not previously dealt with, which affect coding.	—	—	—	B	B

Practical Coding.		Acc. Adv.	Tel.	T.O. W/T	W/T3	W/T2
1	Fleet Signal Book	C	B	B	A	A
2	Fleet Code	B	B	B	A	A
3	Naval Code and recoding tables	B	B	B	A	A
4	Naval Shore Code	—	—	—	C	C
5	Naval Aircraft Code	B	B	A	A	A
6	Air Force Code	—	C	C	B	B
7	Syko Machine and all cards	B	A	A	A	A
8	Call signs all type, naval	C	C	B	A	A
9	Merchant ships call signs	C	B	B	A	A
10	Pendant list	C	C	C	B	B
11	Operating Signals	C	B	A	A	A
12	A.V.S.B.	C	C	B	A	A
13	Fire control Code	—	—	—	B	B
14	Small ships Signal Code	C	C	B	B	B
15	Cysquare	—	—	—	C	B
16	Type X	—	—	—	B	B
17	Mersigs and recoding tables	C	C	C	B	B
18	D.Gs. and recoding tables	C	B	B	A	A
19	Combined operations Gunnery Instructions	—	—	—	C	C
20	G.T.C.	—	—	—	C	C
21	Meteorological Code	—	—	—	C	C
22	Boats Signal Book	—	—	—	C	C
23	M.T.B. Pamphlet	—	—	—	C	C
24	Fighter directing Code	—	—	—	B	B

W/T Technical			Acc. Adv.	Tel.	T.O. W/T	W/T 3	W/T 2
1. Standard Sets	2. First Alternatives	3. Further Alternatives					
Transmitters :— Type 48 (including TR.5F).	*Types 57 and 59 (including Power supplies).	Type 36M (including Tr.5F).	—	—	—	—	B
Type 75 ... Type 49 ...	Type 50 ...	Type 37M ... Type 38M or Type 34M or Type 55. Types TAJ/TBK or TBL.	—	—	—	B	B B†
Type 60 ...	*Type 52 ...	*R.A.F. G.P. set(s).	—	—	—	B	B
Type 66 ... T.W.12 ...	Type 53 ... T.V.5 ...	*Type 67 ... Type 51 ...	—	—	—	B	B A
Type 86 ... Type 88 ...	Type 87 ... Type 89 ...	—	—	—	—	C	C C‡
Control Gear :— C.C.S. ...	C.C.S. ...	Separated Aerial Control system.	—	—	—	—	B

W/T Technical—contd.			Acc. Adv.	Tel.	T.O. W/T	W/T 3	W/T 2
1. Standard Sets	2. First Alternatives	3. Further Alternatives					
Receivers, etc. :— A.50–M.50 ... B.50 ... A.19–M.19–N.19 B.19 ... B.28–B.29 ...	Filters ... B.11, B.12 ... A.11, M.11 ... B.13... Marconi 394 Series.	— — — — —	C C — — C	C C — — C	C C — — C	B B B B B	B† B† A† A
Sound Reproduction Equipment. Type 405/6 ...	— Type 402–4	— Type 401	— —	— —	— —	— —	B B
D/F Outfits : FM.7 ...	— Any M/F D/F set.	— —	— —	— —	— —	— C	B B
FH.3 ...	Any H/F D/F set, later than FH.3.	—	—	—	—	—	C
Wavemeters, etc. : G.35 ... G.61/62 ...	G.33... G.56/57 ...	} —	— —	— —	— —	C	B
Power Supplies :— Any A.C. Supply Outfit. Any Battery Outfit.	— — —	— — —	— — C	— — C	— — B	B A A	B B A
Rectifier, Pattern 1204A/B.	*Rectifier, Pattern 5294.	—	—	—	—	B	B
Transmitting and Receiving Aerials Any Aerial Exchange Outfit.	— —	— —	— —	— —	— —	C B	B B
Avometer, Megger Weston Analyser and their uses.	—	—	C	C	B	B	B
Apparatus in own ship.	—	—	C	C	B	B†	B†

NOTES

(a) Sets from column (1) are to be subjects of instruction and examination if practicable. Where this cannot be arranged satisfactorily owing to the lack of gear, handbooks, etc., alternatives taken in order for columns (2) and (3) may be used. If no alternatives are available, the standard set should be taught as well as possible.

(b) Brief introductory lectures on standard sets and alternative sets marked * are to be included in any course, in which sets so marked, though appropriate to the course, are not taught.

(c) † In the standards of knowledge columns indicates that the sets will not be included in the Course of Examination so marked.

(d) ‡ Whenever possible W/T 2 courses are to include instruction on both Types 86 and 87.

Percentages Required in Examinations by W/T Ratings

Subject	Percentages Required to Pass				
	Acc. Adv. Ord. Tel.	Tel.	T.O. W/T	W/T 3	W/T 2
Technical	—	—	—	75	75
Technical, Practical	Good Ability	65	80	80	80
Theory	—	—	—	—	60
Electricity and Magnetism	—	—	—	—	60
Procedure and Organisation	—	75†	—	80	80
Procedure, Practical	65*	75	80	80	80
Coding Instructions	—	—	—	80	80
Practical Coding	70	75†	80†	80	80
Flashing	—	85	85	—	—
Semaphore	—	—	—	—	—
Buzzer (Transmitting)	85	80	85	85	85
Buzzer (Receiving)	90	90	95	95	95
Educational Examination	50	—	—	—	—

Note.—In written technical examinations B.R. 222 is to be available to the candidates.

* Should also include questions on Procedure and Organisation.

† Should also include questions on "Coding Instructions."

‡ An Oral Examination in Organisation.

Coders
Practical Coding

Subject	Ord. Coder	L. Coder	P.O. Coder
Fleet Code	A	A	A
Naval Code, Recoding Tables and Pads, S.P. 02169	A	A	A
Naval Aircraft Code... ..	B	A	A
Syko and Syko Cards	B	A	A
Air Force Code	C	B	B
Operating Signals	B	A	A
Call Signs and D.Gs., Distinguishing and Description Signals.	A	A	A
R.A.F. Call Signs and D.Gs.	—	C	B
Ship Index, Part I	B	A	A
F.S.B., Section 4, Arts. 148, 150, 151 (a) and (b), 152, 156.	B	A	A
F.S.B., Section 4, Arts. 153, 154, 155	—	B	B
F.S.B., Sections 5 to 14	B	B	B
F.S.B. with A.B.C. Table and Fleet Code	B	B	B
A.V.S.B., Part I	C	B	B
Mersigs, Vol. I, Part ii and Arts. 105, 106	B—Arts. 105 and 106 only.	B	B
Mersigs, Vol. II, and Recoding Tables	C	B	A
Address Indicating Groups (A.F.O. "S" 1)	B	A	A
Small Ships' Code	C	B	A
Anglo-French Code and Recoding Tables	C	C	B
Naval Shore Code	—	C	C
D.C.G., App. B	—	C	C
Anglo-U.S. Call Signs (S.P. 02378)	C	B	A
G.T.C.... ..	—	C	C
Meteorological Code	C	C	C
Inter-service Gunnery Code	—	C	C
Type X	C	B	A
Playfair Code (N.C.C.S., App. "F")	—	C	C
Codeword Appendix... ..	B	A	A
Pendant List	C	B	A
Coastal Forces Signal Book (when in force)	C	C	C
Table of Lettered Co-ordinates	C	B	A

Coders
Coding Instructions

Subject	Ord. Coder	L. Coder	P.O. Coder
1. Definitions :—			
(a) G.S.I. 1-6, 9, 11, 15, 16, 18-20, 22-6, 28-9, 33-4, 38-43, 45-7, 49, 54-5, 60, 62, 66-70, 73-5, 76.	A	A	A
(b) N.C.C.S., Part I, Paras. 1, 5, 6, 9-12, 17	A	A	A
2. General Instructions :—			
G.S.I. 92, 93, 107, 110, 112	A	A	A
G.S.I., App. II	B	B	B
3. Initiating and Drafting Messages :—			
(a) G.S.I. 120, 121, 148-51, 154, 157-8	A	A	A
(b) G.S.I. 125/9A, 137-9A, 141-3, 153, 155 (a) to (c), 160-5.	B	A	A
(c) G.S.I. 130-4, 136, 152, 155 (d) to (j)	C	B	A
4. Procedure Signals, W.S.I., Ch. 6	B	A	A

Subject.— <i>contd.</i>	Ord. Coder.	L. Coder.	P.O. Coder.
5. Verifications and Checks C.I., Ch. 6 ...	C	B	A
6. Use of D.Gs. and Call Signs N.C.C.S., Pt. I, 18-24.	C	B	A
7. Codes and Cyphers and their Uses :—			
(a) Form A2C	C	B	B
(b) N.C.C.S., Pt. IV, Paras. 3-5, 24 ...	B	A	A
(c) C.I., App. A, Pts. I and II	B	B	B
(d) N.C.C.S., Pt. IV, Paras. 8-19; C.I. 38	C	B	A
(e) N.C.C.S., Pt. VI	—	B	A
8. Decyphering and Decoding C.I., Ch. V ...	B	A	A
9. Classification of Messages A.F.O. "S" 140/42 :—			
(a) Paras. 1-4, 6-10, 13, 14(a), 16 ...	A	A	A
(b) Paras. 11, 12, 14(b), 15, Table II ...	—	C	B
(c) Paras. 17, 18, Table I	—	—	C
(d) G.S.I. 124	—	C	B
10. Security of Codes and Cyphers :—			
(a) N.C.C.S., Pt. II, Paras. 2-4, 7-9, 12, G.S.I. 185.	B	A	A
(b) N.C.C.S., App. B	—	C	B
11. Preparing Messages for Despatch C.I., Ch. 2	B	A	A
12. Systems of Transmission :—			
(a) G.S.I. 175-8	A	A	A
(b) G.S.I. 186-8	C	B	A
13. L/T Messages C.I., Ch. 8	—	C	B
14. Enemy Reporting :—			
(a) G.S.I. 215-8, 222-3	B	B	A
(b) C.O.F. 550-5, 557-67, 578-88... ..	C	C	B
(c) C.O.F. 591	C	A	A
15. Message Organisation and Internal Organisation.	Fair Knowledge	Good Knowledge	
16. Anglo-U.S. Communication Arrangements (S.P. 02376, Ch. IV).	—	C	B
17. Care and Custody of S.Ps., G.S.I. X1-6 ...	C	B	A
18. Morse Code	Able to read slow Morse		
19. List of Navy, S.G.A., S.H.A. Numbers, Correction of Books.	C	A	A
20. Admiralty and Station General Messages, G.S.I., Ch. VI.	C	A	A

(A.F.Os. 400/40, Appendix Communications Branch, 494/40, para. 4, 2116/40, 514/41, 1157/41, 4968/42 and 5257/42 are cancelled.)

886.—V/S and W/T Ratings—Revised Standard Buzzer Exercises

(N. 26807/42.—25.2.1943.)

A.—The following revised Standard Buzzer Exercises have been introduced. They are to supersede those at present laid down in O.U. 6290/1937, Articles 149 and 150.

(1) The Standard Buzzer Receiving Exercise (W/T Exercise No. 1)—

(a) There are four classes of exercises, Class I, II, III and IV in general—

- Class I to be read by W/T ratings, Telegraphist and above.
- Class II to be read by W/T ratings, Ordinary Telegraphist and below.
- Class III to be read by V/S ratings, T.O. and above.
- Class IV to be read by V/S ratings, Signaller and below.

The class of exercise to be read by officers and ratings in examinations is given in Part B.I of this order.

(b) Class I exercise—

- (i) 110 words P/L in 5 minutes.
- (ii) 60 words foreign P/L in 3 minutes.
- (iii) 20 groups 5-letter code in 1 minute 5 seconds.
- (iv) 20 groups 4-figure cypher in 1 minute 6 seconds.
- (v) 30 groups Syko in 1 minute 30 seconds.
- (vi) 5 coded messages of about 6 groups each in 5 minutes (approximately)

(c) Class II exercise—

- (i) 100 words P/L in 5 minutes.
- (ii) 54 words foreign P/L in 3 minutes.
- (iii) 20 groups 5-letter code in 1 minute 12 seconds.
- (iv) 20 groups 4-figure cypher in 1 minute 15 seconds.
- (v) 30 groups Syko in 1 minute 52 seconds.
- (vi) 5 coded messages of about 6 groups each in 5 minutes (approximately).

(d) Class III exercise—

- (i) 45 words P/L in 3 minutes.
- (ii) 15 groups 5-letter code in 1 minute 12 seconds.
- (iii) 15 groups 4-figure cypher in 1 minute 30 seconds.
- (iv) 20 groups Syko in 1 minute 40 seconds.

(e) Class IV exercise—

- (i) 36 words P/L in 3 minutes.
- (ii) 15 groups 5-letter code in 1 minute 30 seconds.
- (iii) 15 groups 4-figure cypher in 1 minute 50 seconds.
- (iv) 20 groups Syko in 2 minutes.

(f) The call, time of origin and ending sign are to be included in each part (except cypher, which is to follow immediately after the code) but they are not to be included in the times given.

(g) Commercial procedure is to be used in foreign P/L.

(h) Method of marking the exercise—

(i) Marks are allotted as follows :—

	Class I	Class II	Class III	Class IV
P/L	30	30	40	40
Foreign P/L	15	15	—	—
Code	10	10	20	20
Cypher	10	10	20	20
Syko	15	15	20	20
Coded messages	20	20	—	—

(ii) In Class I and II exercises, 1 mark is deducted for each word or group incorrectly read (including the call and time of origin).

In Class III and IV, 2 marks are deducted.

(i) Number of exercises to be read according to percentage gained in the preceding week.

Previous week's Results	Number of exercises to be read
An average of 95 per cent. and over	1
An average of 93 per cent. and under 95 per cent.	2
An average of 90 per cent. and under 93 per cent.	3
An average of less than 90 per cent.	4

- (j) Voluntary exercises. Should any rating voluntarily read more than his previous week's results require, only the compulsory number of exercises will be taken into consideration in working out his average percentage for the week, the best results being selected from all the exercises sent in. Thus, if a man on account of his previous week's exercises had two exercises to read and sent in four, his results would be worked out on the two best exercises out of the four.

(II) The Standard Buzzer Transmitting Test (W/T Exercise No. 2).

- (a) There are four classes of exercises, Class I, II, III and IV in general—
Class I to be made by W/T ratings, Telegraphist and above.
Class II to be made by W/T ratings, Ordinary Telegraphist and below.
Class III to be made by V/S ratings, T.O. and above.
Class IV to be made by V/S ratings, Signaller and below.

The class of exercise to be made by officers and ratings in examinations is given in Part B.II of this Order.

(b) Class I exercise—

- (i) 22 words P/L in 1 minute.
(ii) 18 groups 5-letter code in 1 minute.
(iii) 18 groups 4-figure cypher in 1 minute.
(iv) 20 groups Syko in 1 minute.
(v) 20 selected signs made at a steady rate.

(c) Class II exercise—

- (i) 20 words P/L in 1 minute.
(ii) 17 groups 5-letter code in 1 minute.
(iii) 14 groups 4-figure cypher in 1 minute.
(iv) 14 groups Syko in 1 minute.
(v) 20 selected signs made at a steady rate.

(d) Class III exercise—

- (i) 15 words P/L in 1 minute.
(ii) 12 groups 5-letter code in 1 minute.
(iii) 8 groups 4-figure cypher in 1 minute.
(iv) 10 groups Syko in 1 minute.
(v) 15 selected signs made at a steady rate.

(e) Class IV exercise—

- (i) 12 words P/L in 1 minute.
(ii) 10 groups 5-letter code in 1 minute.
(iii) 8 groups 4-figure cypher in 1 minute.
(iv) 9 groups Syko in 1 minute.
(v) 10 selected signs made at a steady rate.

(f) Method of marking. Marks are allotted for all classes as follows:—

(i) P/L	20 marks.
Code	20 marks.
Cypher	20 marks.
Syko	20 marks.
Signs	20 marks.

- (ii) The operator is first marked for each portion of the test according to his general style and reliability. The following table gives an indication of how marks should be allotted:—

Good Operator	20-18 marks.
Fair Operator	18-15 marks.
Poor Operator	15-8 marks.
Bad Operator	below 8 marks.

- (iii) Further marks are then deducted for mistakes made, as follows:—

For each uncorrected mistake	1
For each corrected mistake	$\frac{1}{2}$

- (iv) There are no time penalties, but if a rating is more than eight seconds over time in any portion of the test (after allowance has been made for correcting mistakes) that portion is to be repeated.

B.—The following instructions are to supersede the appropriate portions of those laid down in O.U. 6290/1937, Articles 84 (g), 91 (iii), 91 (iv), 151, 152, 204, 213, 227 (iv), 260 (10th and 11th lines) and 270 (12th and 13th lines).

I.—Classes of buzzer exercises to be read and made by ratings.

Rating in which qualifying	Receiving Class	Passing Percentage	Transmitting Class	Passing Percentage
Warrant Telegraphist	I	95	I	90
W/T 1	I	95	I	90
W/T 2	I	95	I	85
W/T 3	I	95	I	85
T.O. W/T	I	95	I	85
Telegraphist	I	90	I	80
Boy Telegraphist qualifying for accelerated advancement.	I	90	II	85
Boy Telegraphist on leaving training establishment.	I	85	II	80
Special service and hostilities only Ordinary Telegraphist on leaving training establishment.	II	90	II	85
Signal Boatswain	III	95	III	90
V/S 1	III	90	III	85
V/S 2	III	90	III	80
V/S 3	III	90	III	80
T.O. V/S	III	85	III	80
Signalman	IV	90	IV	80
Signal Boy qualifying for accelerated advancement.	IV	90	IV	85
Signal Boy	IV	85	IV	80
Special service and hostilities only Ordinary Signalman on leaving training establishment.	IV	85	IV	80
Air Gunner (on completion of Signal School course).	III	95	III	90
Air Gunner (on completion of whole course)	II	95	II	90
Air Gunner—final buzzer test	(At 8 w.p.m.)	95	(At 8 w.p.m.)	90
Rating Observer (on completion of Signal School course).	I	95	I	90
R.M. Signaller	IV	90	—	—
R.M. Signallers' advanced course	IV	90	—	—
R.M. Officers, Instructors and Signallers qualifying in W/T.	III	95	III	85

II.—Classes of buzzer exercises to be read and made by Officers.

Officers qualifying for	Receiving Class	Passing Percentage	Transmitting Class	Passing Percentage
Midshipman (seamanship examination for Sub-Lieutenant).	III	—	—	—
Lieutenant (S)	I	90	I	85
Observers (after course in Naval establishment).	III	90	III	90
Observers (on completion of course)	II	85	II	75
Observer "Qualified in air W/T"	II	95	II	85

(A.F.O. 515/41 is cancelled.)

Year	Month	Day	Event
1898	1	1	...
1898	1	2	...
1898	1	3	...
1898	1	4	...
1898	1	5	...
1898	1	6	...
1898	1	7	...
1898	1	8	...
1898	1	9	...
1898	1	10	...
1898	1	11	...
1898	1	12	...
1898	2	1	...
1898	2	2	...
1898	2	3	...
1898	2	4	...
1898	2	5	...
1898	2	6	...
1898	2	7	...
1898	2	8	...
1898	2	9	...
1898	2	10	...
1898	2	11	...
1898	2	12	...
1898	3	1	...
1898	3	2	...
1898	3	3	...
1898	3	4	...
1898	3	5	...
1898	3	6	...
1898	3	7	...
1898	3	8	...
1898	3	9	...
1898	3	10	...
1898	3	11	...
1898	3	12	...
1898	4	1	...
1898	4	2	...
1898	4	3	...
1898	4	4	...
1898	4	5	...
1898	4	6	...
1898	4	7	...
1898	4	8	...
1898	4	9	...
1898	4	10	...
1898	4	11	...
1898	4	12	...
1898	5	1	...
1898	5	2	...
1898	5	3	...
1898	5	4	...
1898	5	5	...
1898	5	6	...
1898	5	7	...
1898	5	8	...
1898	5	9	...
1898	5	10	...
1898	5	11	...
1898	5	12	...
1898	6	1	...
1898	6	2	...
1898	6	3	...
1898	6	4	...
1898	6	5	...
1898	6	6	...
1898	6	7	...
1898	6	8	...
1898	6	9	...
1898	6	10	...
1898	6	11	...
1898	6	12	...
1898	7	1	...
1898	7	2	...
1898	7	3	...
1898	7	4	...
1898	7	5	...
1898	7	6	...
1898	7	7	...
1898	7	8	...
1898	7	9	...
1898	7	10	...
1898	7	11	...
1898	7	12	...
1898	8	1	...
1898	8	2	...
1898	8	3	...
1898	8	4	...
1898	8	5	...
1898	8	6	...
1898	8	7	...
1898	8	8	...
1898	8	9	...
1898	8	10	...
1898	8	11	...
1898	8	12	...
1898	9	1	...
1898	9	2	...
1898	9	3	...
1898	9	4	...
1898	9	5	...
1898	9	6	...
1898	9	7	...
1898	9	8	...
1898	9	9	...
1898	9	10	...
1898	9	11	...
1898	9	12	...
1898	10	1	...
1898	10	2	...
1898	10	3	...
1898	10	4	...
1898	10	5	...
1898	10	6	...
1898	10	7	...
1898	10	8	...
1898	10	9	...
1898	10	10	...
1898	10	11	...
1898	10	12	...
1898	11	1	...
1898	11	2	...
1898	11	3	...
1898	11	4	...
1898	11	5	...
1898	11	6	...
1898	11	7	...
1898	11	8	...
1898	11	9	...
1898	11	10	...
1898	11	11	...
1898	11	12	...
1898	12	1	...
1898	12	2	...
1898	12	3	...
1898	12	4	...
1898	12	5	...
1898	12	6	...
1898	12	7	...
1898	12	8	...
1898	12	9	...
1898	12	10	...
1898	12	11	...
1898	12	12	...

Year	Month	Day	Event
1899	1	1	...
1899	1	2	...
1899	1	3	...
1899	1	4	...
1899	1	5	...
1899	1	6	...
1899	1	7	...
1899	1	8	...
1899	1	9	...
1899	1	10	...
1899	1	11	...
1899	1	12	...
1899	2	1	...
1899	2	2	...
1899	2	3	...
1899	2	4	...
1899	2	5	...
1899	2	6	...
1899	2	7	...
1899	2	8	...
1899	2	9	...
1899	2	10	...
1899	2	11	...
1899	2	12	...
1899	3	1	...
1899	3	2	...
1899	3	3	...
1899	3	4	...
1899	3	5	...
1899	3	6	...
1899	3	7	...
1899	3	8	...
1899	3	9	...
1899	3	10	...
1899	3	11	...
1899	3	12	...
1899	4	1	...
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