

specialists, and would be appointed for staff or instructional duties, or, if eligible in other respects, to the command of "P" boats or other craft intended for anti-submarine work.

5. The officers' course includes a general study of anti-submarine warfare and thorough theoretical and practical instruction in the apparatus and weapons used for detecting and attacking submarines.

6. A proportion of the ratings required for anti-submarine duties should have a fairly high standard of theoretical knowledge of high-tension electricity. The majority of operators, however, do not require a high standard of technical knowledge, but must have intelligence and good hearing, whilst a knowledge of signalling is desirable in view of possible future developments. The technical standard required varies from a very considerable knowledge of electrical testing and small repair work to an elementary knowledge of the theory of sound and electricity.

7. The courses for petty officers and men qualifying include instruction in the use of all submarine-detection appliances with a view to enabling them to use and look after the gear and make minor repairs. It is not at present the intention to train them in the use of anti-submarine weapons, such as torpedoes, paravanes, depth charges, guns, howitzers, &c., for which torpedo and gunnery ratings are borne in the anti-submarine craft.

8. For the purpose of experiment and research, in the future it will be desirable, when funds are available, to form a scientific body to deal primarily with anti-submarine and other problems, and secondarily with general naval questions of a scientific nature, particularly with reference to the Pacific. (*Vide* Section M of this chapter.)

(H) Signal and W/T Training.

The regulations on the subject of the training of Signal and W/T ratings issued from time to time in the Royal Navy should be followed by ships and establishments of the New Zealand Division of the Royal Navy.

2. The courses of instruction for candidates for the rating of Yeoman of Signals and higher signal ratings, and those of Petty Officer Telegraphist and higher telegraphist ratings, should take place at the Signal School of the Royal Australian Navy by arrangement with the Australian Government.

A small Signal School should be instituted in H.M.S. "Philomel" for giving instruction in signals and W/T to boys and junior ratings.

(I) Engineering Training.

Officers.

The entry of future Engineer officers has been commented upon in Chapter III. The course recommended for adoption is that of the common entry to the Naval College at Jervis Bay, or Osborne and Dartmouth, with subsequent specialization in engineering at the rank of Sub-Lieutenant and Lieutenant.

The latest regulations regarding the specialization of officers of the Royal Navy in engineering will be found in Admiralty Weekly Orders 4047/18 and 1051/19. Regulations regarding the training of officers in engineering, including that of Acting Mates (E.), will be found in the King's Regulations and Admiralty Instructions, Volume II, Appendix X.