

Subject VI, General and Applied Geology.—Prospecting; classification and mode of occurrence of mineral deposits; faulting and recovery of lost lodes. General geology so far as required for the understanding of problems in applied geology as these present themselves in New Zealand.

Each candidate shall forward with his application a certificate from a duly qualified medical practitioner or St. John's or other recognized ambulance society showing that he has taken a course in ambulance work fitting him, the said candidate, to give first aid to men injured in mining operations.

- (8.) A candidate for a first-class certificate shall be entitled thereto if he passes satisfactorily both written and oral examinations in Subjects I to VI.
- (9.) A candidate for a second-class certificate shall be entitled thereto if he passes satisfactorily both written and oral examinations in Subjects I, III, and IV, and he shall not be required to pass in Subjects II, V, and VI.
- (10.) If the candidate is the holder of a second-class certificate he shall state the fact in his application.
- (11.) Candidates for certificates as Battery Superintendents shall undergo both written and oral examinations in the following subjects:—
- Subject I, Milling.—Elevators, hoppers, conveyors, rock-breakers, pulverizers, wet and dry, including stamps, rolls, Chilean mills, ball mills, grinding-pans, tube mills; disposal of residues; erection of plants.
- Subject II, Amalgamation.—Scope of ore-amalgamation; amalgamating-plates, amalgamating-machines, purification of mercury, retorting amalgam, smelting, &c.
- Subject III, Cyanide, Chlorination, and other Chemical Processes.—Conditions for choice of method of treatment, &c.; dewatering; treatment of sands; concentrates and slimes; mixing, testing, and control of solutions; clean-up; principles of roasting as applied to gold and silver ores and concentrates.
- Subject IV, Sizing and Concentration.—General principles; classifiers; concentrating-machines; including jigs, belt-vanners, shaking-tables, canvas tables, buddles, blankets, &c.; principles of magnetic separation and of flotation processes.
- Subject V, Assaying and Elementary Chemistry.—Sampling of ores and mill-products; qualitative tests for the common metals and inorganic acids; separation of the common metals; qualitative analyses of ores and mill-products; dry assay of gold and silver in ores and mill-products; assay of bullion; sources of loss in fire-assaying; a knowledge of the fluxes and reagents used.
- Subject VI, Arithmetic and Law.—A knowledge of store, milling, and treatment accounts; fractions, decimals, percentages, square root; area of rectangle, triangle, trapezoid, circle, &c.; volume of cube, sphere, prism, pyramid, prismoid, &c.; measurement of timber; estimation of ore in mines and at grass; a knowledge of Part VI of the Mining Act.
- (12.) Every applicant must be able to give drawings to illustrate details connected with any work to be done in or about a gold-mine, and must give all details of calculations, and in matters of opinion must fully state his reasons for arriving at any given conclusion.
- (13.) All applications shall, prior to the examination, be forwarded by the Secretary of the Board to the Inspector of Mines of the district for inquiry as to *bona fides*.
- (14.) No candidate shall be permitted to attend for examination without an authority signed by the Secretary of the Board.
- (15.) Certificates, whether by examination or without examination, shall be in such of the forms numbered 89 to 91 in the Fourth Schedule hereto as are applicable.
- (16.) The Board shall keep a register of all certificates issued by it.

DREDGEMASTERS' CERTIFICATES.

With respect to the Board of Examiners for Dredgemasters' Certificates, the following provisions shall apply:—

The Board.

124. In each mining district where dredging is carried on the Board of Examiners shall appoint a certificated dredgemaster of experience and good repute, and a Harbourmaster, who, together with the Inspector of Mines for the district, shall conduct the examinations at such times and places as may be determined by the Board.

D

125. (1.) (a.) Every Examiner so appointed by the Board who is not otherwise employed in any Department of the Public Service shall receive by way of travelling-expenses the sum of £1 11s. for each day of twenty-four hours he is absent from his place of abode for the purpose of conducting the examinations.

(b.) For any portion of a day he shall receive one twenty-fourth of the full daily rate for each hour's absence.

(c.) In computing the time of absence, a fraction of an hour if less than half an hour shall not be taken into account, but half an hour or more shall be reckoned as one hour.

(2.) Every examiner so appointed by the Board who is not otherwise employed in any Department of the Public Service shall also be paid such fee as the Minister may from time to time authorize for each paper set by him.

126. He shall also be repaid all sums properly expended by him for fares by railway, coach, or steamer in travelling for the purpose of attendance at such examinations.

Certificates by Examination.

127. Every candidate for examination shall, at least one month before the date fixed for the examination, and in the Form No. 92 in the Fourth Schedule hereto, make application in that behalf to "The Secretary of the Board of Examiners under the Mining Act," at Wellington, and shall forward therewith a fee of £1 1s.

128. Every candidate for examination shall be not less than twenty-four years of age, and shall forward, together with his application, satisfactory evidence of sobriety and good character, and of at least three years' employment on a dredge or dredges. Two years of such employment must have been served on a dredge or dredges working in deep or swift-flowing streams, and in respect thereto certificates shall be furnished by the candidate in the Form No. 94 in the Fourth Schedule hereto.

129. No candidate shall be permitted to attend for examination without an authority signed by the Secretary of the Board.

130. The examination shall comprise the following subjects:—

- (a.) On laying lines and the methods of running lines for working a dredge.
- (b.) On moving a dredge up and down stream.
- (c.) On mooring a dredge and protecting same against floods, &c.
- (d.) On boats and the working of same under conditions incidental to dredging operations.
- (e.) On a knowledge of the requirements of the Mining Act and regulations relating to dredging.
- (f.) On such other matters relating to the safe working of dredges as the Board may deem desirable, including a knowledge of machinery and the strength of ropes.

131. The certificate issued under these regulations shall be in the Form No. 93 in the Fourth Schedule hereto, as the case requires.

132. The Board shall keep a register of all certificates issued by it.

133. The owner of every dredge shall from time to time notify in writing to the Inspector the name of the dredgemaster employed thereon, together with the number of his certificate, and shall also at all times cause such name to be kept posted in some conspicuous place on the dredge.

134. Every person employed or acting as dredgemaster, or in control of a dredge, shall produce his certificate to the Warden or the Inspector of Mines whenever required so to do.

MISCELLANEOUS PROVISIONS.

As to Service.

135. In any case where, in connection with proceedings before the Warden or in the Warden's Court, notice of any application, objection, counter-claim, appeal, or any other document is to be served by one person or party on another person or party, then such service may be effected (a) by delivering a copy thereof to such other person or party, or his solicitor, or his registered agent, personally, or (b) by leaving the same at the usual place of business or abode of such other person or party in the Dominion, or at his address for service, with some person appearing to be not less than fourteen years of age and to be an inmate thereof, or in charge thereof, or employed therein; or (c) by posting the same in a duly registered letter addressed to such other person or party at his address for service.

136. If service cannot conveniently be effected in any of the ways provided for in the last preceding clause hereof, it may, if the Warden or the Clerk of the Court so directs, be effected in any of the following ways:—

- (1.) By affixing the copy in some conspicuous position upon the site of his last known place of business or abode in the Dominion, or upon the site of his address