

the Board that he is thoroughly competent in mine-surveying: Provided further that in lieu of the examination referred to above the Board may accept the Diploma of Surveyor granted by the Otago School of Mines or other institution recognized by the Board, if the Board is satisfied that the holder of such certificate has obtained a satisfactory percentage of marks in his examinations for such certificate; or

(3.) A first-class certificate of competency as mine-manager obtained prior to the 1st day of January, 1926, endorsed by the Board of Examiners or by the Chief Inspector on or before the 30th day of June, 1928, to the effect that he had adequate experience in the surveying of mines: Provided that application under this subclause is made before the 1st day of January, 1928.

9. (1.) For the purpose of clause 8 (2) hereof the Board shall examine, or cause to be examined, in the subjects hereinafter specified, applicants for certificates as mine-surveyors.

(2.) The Board may appoint supervisors from time to time to superintend such examinations.

10. (1.) Every application for a certificate as a mine-surveyor without examination shall be made in writing, under the hand of the applicant, to the Secretary of the Board of Examiners, Mines Department, Wellington, and each applicant shall forward with his application—

(a.) A fee of £1 1s.:

(b.) A certificate that the applicant is not less than twenty-one years of age:

(c.) A certificate or certificates from his previous employers that he has had at least two years' practical experience in the surveying of mines:

(d.) A certificate from his employer at date as to his general good conduct and sobriety.

(2.) Every application for examination for a mine-surveyor's certificate shall be in Form 8 in the Schedule hereto, and each applicant shall forward with his application—

(a.) A fee of £1 10s.:

(b.) A certificate that the applicant is not less than twenty-one years of age:

(c.) A certificate or certificates from his previous employers that he has had at least two years' practical experience in the surveying of mines.

(d.) A certificate from his employer at date as to his general good conduct and sobriety.

(3.) The fee for endorsement of a first-class certificate of competency as mine-manager as provided for in clause 8 (3) of these regulations shall be 5s.

11. (1.) The subjects of examination for certificates as mine-surveyors shall be as follows:—

(a.) Practice of Surveying: Details of field practice, keeping of field-books, setting out curves, plotting from field notes, barometric and other measurements of heights; connection of underground and surface surveys; surveying of boreholes and determination of dip and strike of seams from borehole data.

(b.) Engineering Surveying: Levelling, grading, measurement of earthworks, calculation of quantities, preparation of longitudinal and cross-sections.

(c.) Surveying Instruments: Construction, adjustment, and use of the following instruments: theodolite, level, miners' dial, compass, clinometer, barometer, measuring-bands, planimeter.

(d.) Drawing and Computation: General plan-drawing; drawings of sections; contours; calculation of areas; reduction of traverse lines to the meridian and perpendicular.

(2.) The examination in the above subjects shall be both written and oral, and candidates will require to present themselves for examination at such places as are appointed by the Board of Examiners.

(3.) At the oral examination each candidate will be required to produce—

(a.) A plan of a mining property, showing traverse work done by himself;

(b.) A plan with longitudinal and cross sections showing levelling done by himself;

(c.) The original field-books and computations.

The above plans shall be endorsed by the applicant's employer, or by a licensed surveyor, or by a duly qualified mine-surveyor that they are solely the work of the applicant.

12. Mine-surveyors' certificates shall be in Form 4 in the Schedule hereto.

#### UNDERVIEWERS' AND FIREMEN AND DEPUTIES' CERTIFICATES.

13. With respect to the examination for certificates as underviewers and firemen and deputies, the following provisions shall apply:—

(a.) Examinations shall be held at such times and places as are appointed by the Board of Examiners.

(b.) In each district where coal-mining is carried on the Board of Examiners shall consist of one or more members of the Board of Examiners appointed under the said Act or such other person or persons as the Governor-General appoints for the purpose and an Inspector of Mines.

14. (1.) Every application for a certificate as an under-viewer or fireman and deputy shall be made in writing under the hand of the applicant to the Secretary of the Board of Examiners, Mines Department, Wellington.

(2.) Every application for examination for an under-viewer's or a fireman and deputy's certificate shall be in Form 7 in the Schedule hereto, and shall be forwarded at least one month before the date fixed for the examination to the Secretary of the Board of Examiners, Mines Department, Wellington, accompanied by a fee of £1 in the case of an application for an underviewer's certificate or a fee of 15s. in the case of an application for a fireman and deputy's certificate.

(3.) Every applicant for examination for an underviewer's or fireman and deputy's certificate shall also forward with his application—

(a.) A medical certificate that his senses of sight and hearing are not defective;

(b.) A certificate or certificates from his previous employers that he has had not less than three years' experience in underground workings in a coal-mine in the case of the holder of a mine-manager's certificate granted after examination under the Mining Act, 1908, or any Act in substitution thereof, and not less than five years such experience in any other case: Provided that in all cases the applicant shall have had at least two years' experience in working at the face:

(c.) A certificate at date from his employer as to his general good conduct and sobriety.

15. For the purpose of enabling the Board to determine whether the candidate possesses the requisite practical experience, his application shall specify accurately and definitely the respective mines in which he has been employed, and the duration and nature of his employment in or at each mine.

16. The examination for underviewer's certificates shall be partly written and partly oral and practical, and shall include the following subjects:—

(a.) Working coal and timbering underground.

(b.) Ventilation, mine-gases, spontaneous combustion, inflammability of coaldust.

(c.) Dealing with old workings and other sources of danger.

(d.) Arithmetic and a knowledge of the said Act (so far as it relates to the working and safety of mines) and of the regulations made thereunder.

(e.) First aid to the injured.

(NOTE.—A first-aid certificate of the St. John Ambulance Association, St. Andrew's Association, British Red Cross Society ("Intermediate" or "Advanced"), or other body approved by the Board of Examiners, showing that the candidate is fitted to give first aid to persons requiring it, will be accepted in lieu of examination.)

(f.) Accurate tests for inflammable gas with a safety-lamp.

(NOTE.—The candidate must be able to judge by the size and appearance of the cap how much gas approximately is present. He will be tested with percentages of gas from 2 per cent. upwards, and no candidate will pass who is unable to see a 2-per-cent. cap.)

(g.) A candidate will be required to show that he can measure the quantity of air in an air-current.

(h.) The candidate's hearing will be tested, and should be such as to enable him to carry out his duties efficiently.

17. The examination for firemen and deputies shall be oral and practical, and shall include—

(a.) Working coal and timbering underground:

(b.) Ventilation, mine-gases, spontaneous combustion, and inflammability of coaldust:

(c.) A knowledge of the said Act (so far as it relates to the working and safety of mines) and of the regulations made thereunder.

(d.) First aid to the injured.

(NOTE.—A first-aid certificate of the St. John Ambulance Association, St. Andrew's Association, British Red Cross Society ("Intermediate" or "Advanced"), or other body approved by the Board of Examiners, showing that the candidate is fitted to give first aid to persons requiring it, will be accepted in lieu of examination.)

(e.) Also the requirements set out in paragraphs (f) and (h) of clause 16 hereof.

18. Underviewers' certificates by examination shall be in Form 5 and firemen and deputies' certificates shall be in Form 6 in the Schedule hereto.