

**(Rules Under the Myanmar Steam-boilers and Prime-movers Act 1882(XVIII of 1882), Engineers of
the first or second class, or as Engine-drivers,)**

No. 40

THE Myanmar GAZETTE, FEBRUARY 19TH, 1898.

[Amendment : 18.06.1989]

No. 40.- In supersession of the notifications cited in the margin, and in exercise of the powers conferred by section 4 of the Myanmar Steam-boilers and Prime-movers Act, 1882(XVIII of 1882), the Lieutenant-Governor makes the following rules regulating the examination of, and the grant of certificates to, persons to act as Engineers of the first or second class, or as Engine-drivers, under the said Act and the cancellation of certificates so granted:-

1. A Board of Examining Engineers shall be constituted in Rangoon, consisting of the Inspector for Rangoon Town as Chairman and of four other members to be appointed from time to time by the Commissioner, Pegu Division. A member of the Board shall ordinarily hold office so long as he is resident in Rangoon, and shall vacate his office if he resigns by letter addressed to the Commissioner, Pegu Division, or if he is absent from Rangoon for more than 30 days continuously.

A special Examination Board may, under the orders of the Lieutenant-Governor, be constituted at any time at Mandalay, Moulmein, Akyab, or Bassein.

Explanation.-In the following rules "the Board" includes the Board of Examining Engineers in Rangoon and any special Board constituted under this rule.

2. The Chairman and any two members of the Board shall form a quorum.
3. The Board may, at their discretion, grant certificates without examination-

As Engineers of the first class-

- (a) to persons holding certificates as first class Marine Engineers;
- (b) to persons who have satisfactorily passed through a course of training of not less than five years' duration in an engineering establishment of recognized position and who have been for two years in sole or chief charge of engines and boilers of 20 horse-power and upwards, and who can produce good certificates of character and conduct;

- (c) to persons holding certificates as second class Marine Engineers who have been in either sole or chief charge of engines and boilers of more than 20 horse-power for two years or upwards, and who can produce good certificates of character and conduct.

As Engineers of the Second class-

- (d) to persons who have satisfactorily passed through a course of training of not less than five years' duration in an engineering establishment of recognized position;
- (e) to persons who, not holding any certificates as Marine Engineers, have been in either sole or chief charge of engines and boilers of more than 20 horse-power for five years and upwards, and who can produce good certificates of character and conduct;
- (f) to persons holding certificates as second class Marine Engineers.
- (g) to persons who, not holding any certificates as Marine Engineers, after serving a term of not less than three years' apprenticeship in any recognized workshop, have been employed for not less than two years as Engineers on engines and boilers, and who can produce good certificates of character and conduct.

As Engine –drivers-

- (h) to persons who, not holding any certificates as Marine Engineers and not having served an apprenticeship of three years, have been employed for not less than five years on any engine and boiler, and who can produce good certificates of character and conduct.

4. The Board shall grant certificates-

- (a) **As Engineers of the first class-** to persons who hold certificates as Engineers of the second class granted under Rule 3, or under clause (b), of this rule, and who have passed the examination for first class certificates hereafter prescribed.
- (b) **As Engineers of the second class-** to persons who (i) have passed the examination for second class certificates hereafter prescribed, and have served not less than five years, partly as apprentices and partly on any engine and boiler, and can produce good certificates of character and conduct; or (ii) have passed the examination for second class certificates hereafter prescribed and hold certificates as engine-drivers granted under Rule 3.

5. The examinations for certificates shall be partly written and partly practical. The subjects in which the examinations will be held, and the minimum proportion of marks which must be gained on the whole and in the practical part of the examinations to qualify for passing, shall be as follows:-

- (i) The examination will be partly viva voce and partly by means of papers of questions to be answered in writing.
- (ii) The number of marks to be allotted for the viva voce part of the examination will bear to the number allotted for the written part the proportion of three to four. The subjects of examination will be as follows:-

For second class certificates-

- (a) description of various forms of steam-boilers and the method of constructing and staying them; also the uses and management of their different valves, cocks, pipes, and connexions;
- (b) causes of and means of remedying the various defects arising from accident, decay, &c., in steam-boilers;
- (c) causes and effects of and remedies for incrustation and corrosion in steam-boilers;
- (d) the use of the barometer, thermometer, and salino-meter;
- (e) description of the various forms of construction of steam-engines, with the uses of the different parts;
- (f) arithmetic up to decimal fractions.

For first class certificates-

In addition to the foregoing-

- (a) the making of rough working sketches of the various parts of engines and boilers;
 - (b) the indicator and its diagrams;
 - (c) strength of materials, especially with regard to the construction and working pressure of steam-boilers;
 - (d) methods of testing the correctness of, and adjusting the various parts of, steam-engines;
 - (e) the properties of steam;
 - (f) mensuration of superficies and solids and the extraction of the square root.
- (iii) The number of marks allotted to each written question will be noted in the examination paper.

- (iv) Every candidate will be required to obtain at least two-thirds of the number of marks allotted in the practical or viva voce part of the examination and also two-thirds of the number allotted to the written part of the examination in order to qualify for a certificate. Provided that, if a candidate obtain more than the minimum number of marks in the one part of the examination and less than the minimum in the other part, and if the excess marks earned in the one part are more than double the number of the deficient marks in the other part, the candidate shall be held to have qualified for a certificate.

6. The following fees shall be paid:-

					Rs.
(a)	For every application presented to the Board asking for a				
	certificate	..	...	...	4
(b)	For every first class certificate granted without examination				10
(c)	For every first class certificate granted after examination				20
(d)	For every second class certificate granted without				
	examination	...	...	...	6
(e)	For every second class certificate granted after				
	examination	...	...	...	15
(f)	For every Engine-driver's certificate			...	3

The fees shall be divided among the members of the Board taking part in the examination of the candidate or candidates by whom they are paid, or constituting the quorum of the Board which grants the certificate where there is no examination, as the case may be.

7. Applications for certificates shall be made and fees shall be paid to the Chairman of the Board.

8. Candidates for certificates shall send in their applications not less than one week previous to the date of the meeting of the Board at which they desire to appear. Every application shall be accompanied by copies of the candidate's indentures or certificates required under Rule 3 or 4.
9. Every candidate for a certificate, whether without or after examination, shall appear personally before the Board at its next meeting after sending in his application and must produce the originals or properly authenticated copies of his indentures or certificates.
10. The Chairman shall keep accounts of the fees received and of the payments made to members, shall appoint days and hours of holding examinations, and shall summon his colleagues for examinations and for the consideration of applications for the grant of certificates without examination.
11. The Board may cancel, either temporarily or permanently, any certificate granted under the Act, when they are satisfied that the holder of such certificate is by reason of insobriety or carelessness, or for any other cause, unfit to retain it. The Board may enquire into the desirability of cancelling a certificate either on the report of an Inspector or on the report of the holder's employer or of their own motion, but they shall not cancel any certificate until they have given the holder thereof opportunity to show cause why his certificate should not be cancelled. The Board may, after enquiry, grant a new certificate to any person whose certificate has been cancelled.

F.C.GATES

Secretary to the Government of Myanmar