

Introduction:

Large boilers should be kept in charge of a Certified Boiler Operation Engineer while steaming. This **Directorate is conducting these Boiler Operation Engineers' Examination generally twice in a year and providing certificates to the successful candidates as per the said Rules.**

Where Boiler Operation Engineer is Required ?

The owner of

i) A Single boiler or

ii) Two or more boilers connected in a battery or

iii) Many separate individual boilers situated in a radius of 50 meters

having a total heating surface exceeding 1000 sq. meters shall not use the same or permit the same to be used unless the boiler or boilers are placed in direct charge of a certified Boiler Operation Engineer as per the Boiler Operation Engineers' Rule, 2011.

Eligibility Criteria for Boiler Operation Engineers' Examination:

BOE Eligibility Criteria

(As per Boiler Operation Engineers' Rule,2011)

1. **Qualification:** Degree or Diploma in
Mechanical Engineering/
Electrical Engineering/
Chemical Engineering/
Power Plant Engineering/
Production Engineering/
Instrumentation Engineering

2. **Experience:** For Degree holders : 2 years

- For Diploma Holders : 5 years
- For Degree/PG Diploma from
National Power Training Institute : 1 year
3. **Age:** Not less than 23 years
 4. **Photograph:** 2 copies of recent self attested passport size (50mmX65mm) photograph signed on the back side by the candidate.
 5. **Character Certificate:** From the Employer.
 6. **Fees:** Rs.1500 by On-Line thorough GRIPS Portal in the Inspection Head.
 7. **Documents:** One set of self attested copy of all relevant documents.
 8. **N.O.C:** From the Director of Boilers of the Concerned State for candidates of other states.

How To Apply for Boiler Operation Engineers' Examination:

This is for general information to candidates who wish to appear in the BOE Examination following guideline is to be followed for submission of application form to this Directorate for conducting the examination smoothly:

- 1) Application form as per Boiler Operation Engineers' Rule-2011 may be collected by the applicant from the following sources as per their convenience.
 - i) From the latest edition of IBR Book.
 - ii) From the website of the Directorate of Boilers, West Bengal.
 - iii) It may be Photo copied or typed in the prescribed format of Form A of Boiler Operation Engineers' Rule-2011(see rules 26 and 41).
- 2) Candidates from **Kolkata, 24 Parganas(N), 24 Parganas(S), Howrah, Nadia, Murshidabad, Birbhum, Medinipur(E), Medinipur(W), Hooghly and Burdwan(except Durgapur and Asansol Sub-Division)** district under the jurisdiction of Head Office will submit their application forms **by post only** to

the Head Office at the Directorate of Boilers, 8th floor, New Secretariat Building, 1, K.S.Roy Road, Kolkata-700001.

- 3) Candidates from **Durgapur Sub-Division** will submit their application forms to the Office of Deputy Director of Boilers, Durgapur, 2nd floor, 1st Administrative Building, City Centre, Durgapur – 713 216, Dist. Burdwan, Telephone No.(0343)2545592 Durgapur Branch office will forward those application forms to the Head Office after scrutiny and verification.
- 4) Candidates from **Asansol Sub-Division, Bankura and Purulia** district will submit their application forms to the Office of the Deputy Director of Boilers, Sitarampur, P.O. Sitarampur, Dist. Burdwan, Telephone No.(0341)2510517. Sitarampur Branch office will forward those application forms to the Head Office after scrutiny and verification.
- 5) Candidates from **Darjeeling, Jalpaiguri, Coochbihar, Alipurduar, Maldah, North Dinajpur and South Dinajpur** district will submit their application forms to the Deputy Director of Boilers, Malda Branch Office. Maldah Branch office will forward those application forms to the Head Office after scrutiny and verification.
- 6) Candidates of West Bengal can apply at any time through out the year.
- 7) Candidates from other States (Outside West Bengal) can only apply when notification is specifically served for examination for the candidates of other States.
- 8) Following documents are to be enclosed with the filled in application:-
 - i) Attested copy of Madhyamik/Degree/Diploma/NPTI Certificate.
 - ii) Experience Certificate in original with counter signature.
 - iii) Two copies of recent self attested photographs(size 65 mm x 50 mm) of the applicant signed on the back side by Candidate.
 - iv) NOC in original (for candidate outside West Bengal).
 - v) Original on-line challan of Rs.1500 (submitted under Head of Account “023-000-103-00-114(Service fees-14) through GRIPS portal.
 - vi) One self-addressed envelope with post stamp of Rs.5/- duly fixed.
 - vii) The envelope containing the duly filled in Application Form should be superscribed as “Application for Boiler Operation Engineers’ Examination”.
 - viii) MOBILE NO. and E-mail ID of candidate should be mentioned in the application form for official communication.

Syllabus of BOE Examination:

- (a) Calculation of load, areas, volume, quantities and weight.

- (b) Description of different types of boiler and calculation of working pressure of boiler.
- (c) Calculation of stress.
- (d) Working management of steam boiler, superheater and economiser.
- (e) Use and purpose of various valves, cocks, mountings, fittings and safety devices.
- (f) Description and function of BFP, feed injector, feed regulator, feed water filters and softeners, feed heaters, air heaters, clarifiers, accumulators, F.D.Fans, I.D.Fans . Draft system and draft control devices.
- (g) Combustion system, Overall efficiency of boiler.
- (h) Condensation, reheating and steam expansion.
- (i) Foundation of boiler and chimney and height of chimney.
- (j) Description and principles of stokers, pulverizers, gas. Oil and pulverized fuel systems.
- (k) Cleaning method of boiler, PH value of water.
- (l) Detect defects in boiler and remedial measures.
- (m) Start up of boiler.
- (n) Economiser.
- (o) Fuel economy and Instrumentation of boiler.
- (p) Materials used for construction of boiler and piping.
- (q) Sketch and drawing of boiler, boiler component and mountings.

Subjects of BOE Examination:

Examination shall be conducted in the following manner:-

- (1) Written examination on Boiler Paper I
- (2) Written examination on Boiler Paper II
- (3) Written drawing examination on boiler.
- (4) Oral examination on boiler.

Assessment of work for BOE examination:

- i) At least 45% marks in each written as well as in oral examination and
- ii) The aggregate should not be less than 50% of the total marks.

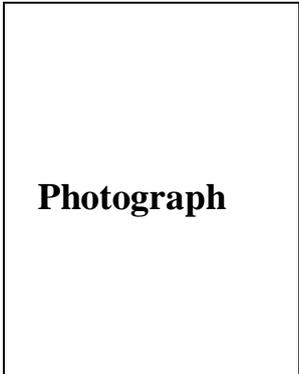
Proforma of Application of BOE examination:

FORM 'A'
(See rules 26 and 41)

Application for Proficiency as Boiler Operation Engineer

PART I: NAME ETC OF THE APPLICANT

1. Name (in full):
2. Father's Name:
3. Nationality:
4. Date of Birth:
5. Place of Birth:
6. Permanent Address:
7. Whether appeared in any previous examination:
8. If so, details of date and place:



PART II: PARTICULARS OF ALL CERTIFICATES SUBMITTED

Number of the certificate	Class of certificate	Place of issue	Date of issue	If any time suspended or cancelled, and if so state by whom	Date of suspension or cancellation	Reason of suspension or cancellation
1	2	3	4	5	6	7

PART III: LIST OF TESTIMONIALS AND STATEMENTS OF SERVICE

(The testimonials to be numbered serially corresponding to the numbers given in column below)

Serial number of testimonials	Date of testimonials	Name of person signing testimonials	Address and designation of factory or workshop	Number, type and heating surface of	Capacity in which employed

			where employed	boilers worked on	
1	2	3	4	5	6

Service of applicant		Period for which employed			Not to be filled by the applicant	
Date of commencement	Date of termination	Years	Months	Days	Initials of verifier	Remarks
7	8	9	10	11	12	13

Total Service

Time served for which certificates are produced

Time served for which no certificates are produced

PART IV: DECLARATION TO BE MADE BY THE APPLICANT

I do hereby declare that the statements made in Part I, II and III of this form are correct and true to the best of my knowledge and belief; and that the papers enumerated in Part II and submitted with this form are true and genuine documents and further that the copies of the documents submitted with this form are true and correct. I further declare that the statements made in Part III contains a true and correct amount of the whole period of my service without exception, and I make this declaration conscientiously believing the same to be true.

Dated atthis day of20....

Signature of the applicant
Present address.

Signed in the presence of

Signature.....

Designation

NOTE:

1. Every application must be accompanied with the requisite fee in the manner as may be prescribed by the Government.
2. Two copies of a recent bust photograph of the applicant (size 50mm X 65mm) must accompany the application with applicant's signature on the back thereof, duly attested by a Gazetted Officer or the candidate's employer.
3. Any person making a false statement for the purpose of admission to the examination renders himself liable to prosecution.
4. Incomplete application is liable to be rejected.

PATR V

(Not to be filled by the applicant)

Certified that shrihas been examined for Certificate of Proficiency as boiler Operation Engineer and that he has passed/failed in the examination held during.....

Issue of Certificate of proficiency as Boiler Operation Engineer when certified to have passed

Certificate No.....issued on.....and duplicate recorded.

(Secretary)
Board of Examiners