

BOILER OPERATION ENGINEER'S EXAMINATION (BOE)- 2021

The Board of Examiners for the Boiler Operation Engineer's Examination (constituted as per G.O.(P) No. 5/2021/LBR Dated 08.01.2021) met on 20.03.2021 and decided to conduct Boiler Operation Engineer's Examination 2021 as required under Rule 21 of the Boiler Operation Engineers Rules – 2011, a Gazette Notification in this regard has to be issued for the information of the public.

(To be published in the Official Gazette of Kerala)

T3/6630/2019/F&B

Dated : 19.04.2021

Ministry of Labour

Department of Factories & Boilers, Kerala State

NOTIFICATION

It is hereby notified as required under Rule 21 of the Boiler Operation Engineers Rules 2011, that Boiler Operation Engineer's Examination for Boiler Operation Engineer's will be held on 11th and 12th September 2021. Oral and practical examinations are to be held on 18th, 19th and 20th November 2021. Applications are invited from eligible candidates in the prescribed form.

1. The application form along with the instructions to candidates is available in the official website www.fabkerala.gov.in. Applicants are requested to fill all mandatory columns one by one and attach soft copies of all relevant testimonials. After finishing the online entries, take a print out of the filled application and sent to **"The Secretary, Board of Examiners, Office of the Directorate of Factories & Boilers, Suraksha Bhavan, Near A.J. Hall, Kumarapuram, Medical College P.O., Thiruvananthapuram – 695 011, Kerala"**.
2. Examination fee shall be Rs.2,000/- (Two Thousand Rupees only) plus Goods and Services Tax (GST) as applicable, through e-payment under the **Head of Accountant "0230-00-800-89"** (Fee for the Boiler Operation Engineer's Examination). Detailed instructions are available along with online application. Fee once remitted will not be refunded under any circumstances;
3. Exact time, place and mode of examination is available in the website.
4. The online application will be available from 03.05.2021 to 31.05.2021 and Hard copies of the application should be submitted to the Secretary before 19.06.2021, 5.00 pm.

BOILER OPERATION ENGINEERS' EXAMINATION – 2021

The Directorate of Factories & Boilers, Kerala has decided to conduct the Boiler Operation Engineers' Examination during the September and November 2021.

According to a press release, the written examination (viz. Paper I & II) and the drawing examination (Paper III) will be held on 11.09.2021 and 12.09.2021 respectively and Practical Examination will be held on 18th, 19th and 20th of November 2021. The last date of receipt of the online application & hardcopy of the application in the office of The Secretary, Board of Examiners, Directorate of Factories & Boilers, "Suraksha Bhavan", Kumarapuram, Medical College P.O., Thiruvananthapuram – 695 011, Kerala State will be on or before 31.05.2021 & 19.06.2021, 5.00 pm respectively.

The online application form and instruction to the candidate is available in the official website www.fabkerala.gov.in

For more details, contact Phone No. 0471-2441597

**DIRECTOR OF FACTORIES & BOILERS
CHAIRMAN, BOARD OF EXAMINERS**

1. ELIGIBILITY CRITERIA

Age, Qualification and Experience – A candidate for a certificate of proficiency as a Boiler Operation Engineer shall not be admitted to the examination unless he –

- a) has completed the age of twenty-three years;
- b) possesses a degree or diploma in Mechanical or Electrical or Chemical or Power Plant or Production or Instrumentation Engineering from a recognized university or institution;
- c) has served for not less than two years in case of degree holders and for five years in case of diploma holders in the operation or maintenance of a boiler of not less than one thousand square meters heating surface or a Battery of boilers of not less than one thousand meters heating surface in aggregate out of which at least one boiler of not less than five hundred square meters heating surface;

Provided that in case of a degree holder or post graduate diploma holder from a National Power Training Institute, the requirement of minimum working experience shall be one year.

2. TESTIMONIALS

- 1) Candidates have to produce satisfactory testimonials certifying his experience, ability and good conduct for the whole period of his qualifying service or any unaccounted break: in the period of qualifying service. Such testimonials shall clearly state the capacity in which candidate was employed, whether as an Apprentice Engineer, Supervisor, Assistant Engineer and the periods of such employment stating the dates between which candidates was so employed.
- 2) The testimonial shall be signed by the incharge of the department in which the candidate was employed and be countersigned by the owner or agent of the mill, factory or workshop or by such other persons as the committee may lay down in this behalf.
- 3) A Candidate who has undergone a course of training at a recognized Engineering College or Technical Institution shall produce either the degree or diploma of the course or a certificate from the College /Institution as the case may be , giving the period devoted in completing

the course.

- 4) A testimonial in respect of service in a steamship may be signed by the Chief Engineer and counter signed by the Master of the vessel or may be in the form of a Seaman's Discharge Certificate issued by a shipping Master.
- 5) A testimonial of service rendered on railway boilers or boilers belonging to a any Government Department or local bodies shall be signed by a responsible officer of that department in which the candidate had served and countersigned by the concerned Head of the Department.

3. SYLLABUS FOR EXAMINATION

A candidate in order to be qualified for a certificate of proficiency under these rules, shall, satisfy the examiner that he-

- a) can calculate loads, areas, volumes, quantities and weights;
- b) can give description of the principal types of steam boilers used on land and to state the purposes and reasons for which different types of boilers are employed; and from the data and formulae supplied, calculate the safe working pressure for any part of a boiler in accordance with the Indian Boiler Regulations;
- c) can calculate the direct stress, the torsional stress and the bending stress in round bars and shafts and the bending stress in rectangular bars and levers with given load;
- d) understands the working and management of steam boilers, super heaters and economizers;
- e) understands the use and purpose of various valves, cocks, mountings, fitting and other safety devices;
- f) can give a description of and explain the functions of feed pumps, feed injectors, feed regulators, feed water filters and softeners, feed heaters, air heaters, calorifiers, steam accumulators, forced draught, induced draught and automatic draught control devices;
- g) can answer questions on fact relating to combustion, heat and steam and calculate consumption of coal and water and quantity of steam that may be generated from a given heating surface under the various systems of draught, in any land boiler and also calculate the overall efficiency of boiler plant;

- h) can explain jet and surface condensation, reheating and the working of steam expansion;
- i) can explain the general methods employed in laying foundation for boilers and chimneys and the suitable area and height of chimneys to promote efficient combustion;
- j) can explain the significance of principal appliances in use for the prevention of smoke and the principle on which they work and give description of the principal mechanical stokers, pulverisers, gas, oil and pulverized fuel systems in use;
- k) understands the need for periodical cleaning, the methods used for prevention of scale or other deposits on heating surfaces and the necessity for maintaining a certain PH value in feed water;
- l) can detect defects in boilers and state the means and methods of rectifying them.
- m) understands the precautions to be taken for starting a boiler and economizer from cold or from banked fire condition;
- n) understands the procedure to be adopted in putting an economizer out of commission while the boiler is on steam;
- o) can explain the methods adopted for the achievement of fuel economy and the use of various instruments used in a Boiler House;
- p) materials used in Boiler components and piping; and
- q) can read and prepare a working sketch and drawing of boilers and boiler mounting or parts thereof.

4. SUBJECTS FOR EXAMINATION

The examination shall be conducted in the following manner, namely:-

- 1) Written examination consisting of one paper on boilers to cover the syllabus stipulated under sub-rule (a) to sub-rule (h) of rule 31 and another paper on boilers to cover the syllabus stipulated under sub-rule (i) to sub-rule (p) of rule 31.
- 2) A written drawing examination covering sub-rule (q) of rule 31.
- 3) An oral examination to answer questions pertaining to boiler practices and if required by the examiner to demonstrate in the examination room or in a workshop, his ability to carry out the practical aspects of his duties in a Boiler House.

<u>SCHEDULE OF EXAMINATIONS</u>		
1	Written Examination	11.09.2021 and 12.09.2021
2	Oral and Practical Examination	18th, 19th and 20th November 2021

How to apply?

The application form along with the instructions to candidates is available in the official websites www.fabkerala.gov.in

The following things must be kept ready for registering online

- a) Scanned copy of Photo, Signature in 'jpeg' format.**
- b) The size of the above items should not exceed the following
Photograph (138X177) -100KB, Signature-50KB, Thumb Impression- 50KB**
- c) All other documents must be in 'pdf' format and should not exceed 1MB size**
- d) Internet Banking account for remitting fee (Through online)
Rs. 2000/-**

5. SUBMISSION OF HARD COPY OF APPLICATION

The printout of the application signed by the applicant shall be forwarded to the Secretary in the following address.

**The secretary Board of Examiners
Suraksha Bhavan
Directorate of Factories and Boilers
Kumarapuram , Medical College P.O.
Thiruvananthapuram- 695011
Kerala.**

Please note that only print out of the application after affixing signature of the candidate and counter signed by the manager of the firm or a gazetted officer need only to be submitted so as to reach on or before 19-06-2021 before 5 pm.

Note : All originals in respect of academic qualifications, experience and such other testimonials uploaded shall be produced at the time of Oral and Practical Examination.

6. IMPORTANT DATES

**a) Last date for receiving online application:
31.05.2021 .**

**b) Last date for receiving hard copy of application:
19.06.2021 before 5 pm**

Sd/-
DIRECTOR OF FACTORIES & BOILERS AND
CHAIRMAN, BOARD OF EXAMINERS