



No. DCE- 007(201)

Date: 12/06/2023

**Announcement of Short Course on “Boiler Operation, Maintenance & Safety”, Batch 01 (25-27 August 2023) & Batch 02 (01-03 September 2023) Organized by Directorate of Continuing Education (DCE), BUET.**

Dear Sir/Madam,

We have the pleasure to inform you that a 3 days short course on ‘Boiler Operation, Maintenance & Safety’ is going to be organized by the Directorate of Continuing Education (DCE), on 25-27 August 2023 & 01 – 03 September 2023.

The short course on boiler operation, maintenance, and safety is thoughtfully designed, offering a comprehensive curriculum and interactive learning methods. Led by the esteemed professors of **Bangladesh University of Engineering and Technology (BUET)** and experienced professionals from **the Office of the Chief Inspector of Boilers (Ministry of Industries, Government of the People’s Republic of Bangladesh)**, the course equips participants with the necessary expertise to confidently manage boilers, emphasizing safety and efficiency. By striking a balance between theory and practice, the course prepares professionals to handle complexities while mitigating risks.

The registration fee for this short course is **TK. 15000/- (Taka fifteen thousand only)** as per person to be paid in advance, through Pay-Order or Demand draft, in favor of “**Director, BRTC, BUET**”. Course registration fee may also be electronically deposited at Savings Account No. 4404034173888, Account Name: **Director, Directorate of Continuing Education (DCE), Sonali Bank Ltd., BUET Branch, Dhaka**. Course Fee includes all costs of printed course materials, exams, certificates, refreshments, etc., and excludes VAT & TAX.

Seats are limited and the application /nomination would be selected on a First Come First Served basis, **Registration Deadline is 20 August 2023**.

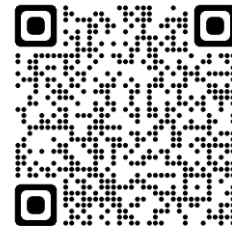
For further information, please contact to DCE office, BUET, Cell: **01303183113, 01611510056**, Tel: **58610738**, PABX. 55167100 Ext. 7848, E-mail: [info@dce.buet.ac.bd](mailto:info@dce.buet.ac.bd). You may also visit our official website: <https://dce.buet.ac.bd>

It is highly appreciated if you could kindly participate and/or nominate the concerned official(s) from your esteemed organization in this proposed short course.

Thank You

**Prof. Dr. Mohammad Nasim Hasan**  
Director, Directorate of Continuing Education (DCE)  
Bangladesh University of Engineering and Technology  
Mail: info@dce.buet.ac.bd

**For registration in this course,**  
**Please scan below**



## CONTACT

**Director**  
**Directorate of Continuing Education (DCE)**  
BUET, Dhaka-1000

Tel: 02 58610738  
PABX: 02 55167228-57 ext. 7848, 7452  
Cell: 01303183113  
Email: info@dce.buet.ac.bd

- **Batch 01: 25 – 27 Aug 2023:**  
(3 days)
- **Batch 02: 01 – 03 September 2023:** (3 days)

## About DCE

DCE established in **1995 at BUET**, a platform for decentralized and adaptive learning to bridge the gap between Professionals and Academicians, promotes pedagogical development with a combined experience of Academicians and Professionals and offers distance training opportunities. So far, **199** short courses/training workshops have been offered to serve more than **10,000** professionals.

## Short Course Outcomes

At the end of this course, participants are expected to learn and subsequently apply knowledge on:

- Fundamentals of industrial boiler operation
- Boiler rules and regulations in Bangladesh
- Requirements of boiler rooms
- Developed maintenance program for boilers
- Inspection of boiler
- Boiler feed water treatment methods
- Efficiency in boiler operation
- Causes of explosions, failures, and accidents of boilers
- Hands-on experience in boiler operation
- Boiler safety check

## RESOURCE PERSON

Experts from both **Academic and Professional** domains will conduct the proposed short course.

For details please visit: [dce.buet.ac.bd](http://dce.buet.ac.bd)

## DURATION

**Batch 01: 25 – 27 Aug 2023:** (3 days)  
**Batch 02: 01 – 03 September 2023:** (3 days)

## LANGUAGE

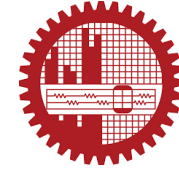
English and Bangla

## CERTIFICATE

A certificate of attendance will be provided.

## Short Course On

## Boiler Operation, Maintenance and Safety



**Batch 01 (25 - 27 August 2023)**  
&  
**Batch 02 (01-03 September 2023)**  
BUET, Dhaka

## Organized by

**Directorate of Continuing Education (DCE)**  
Bangladesh University of Engineering and Technology  
Dhaka-1000

For registration in this course, please scan below



Boilers play a vital role in industries, providing steam or hot water for various applications. Proper operation is crucial, with skilled personnel monitoring temperature, pressure, and fuel supply for optimal performance. Regular maintenance, including inspections and cleaning, ensures safe and efficient operation, extends boiler lifespan, and prevents breakdowns. Safety measures like safety valves and temperature controls mitigate risks. Compliance with safety standards and regulations is essential, with inspections and audits verifying adherence. Training workers on operations, maintenance, and emergency procedures promote safety awareness. By prioritizing operation, maintenance, and safety, industries ensure efficient and safe boiler operation, minimizing risks, and maximizing productivity.

Join the official workshop on boiler operation, maintenance, and safety, presented by DCE, BUET. Gain comprehensive knowledge aligned with local regulations and international standards. Learn from industry experts, engage in practical sessions, and enhance your skills. Don't miss this invaluable learning opportunity. Register now!

### WHO SHOULD ATTEND?

This workshop is designed for anyone who has an interest in boilers and needs to understand the fundamental operation of boilers to improve efficiency and safety at their plants. The following participants will get the most benefit from attending this short course:

- Project Directors / Managers / Engineers
- Plant and facility maintenance personnel/ managers/ supervisors
- Apprentice and experienced boiler technicians
- Energy auditors/ managers/ safety officers
- Boiler/ Mechanical/ Maintenance Engineers
- Purchasing managers/ Contractors / Manufacturers
- Graduates looking for Safety professional jobs

### PROGRAM OVERVIEW

#### Contents of the workshop are:

- Fundamentals of boilers
- Industrial boiler operation
- Boiler Rules and Regulations in Bangladesh
- Requirements of the boiler room and its safety
- Industrial boiler maintenance
- Boiler operation log sheet preparation
- Boiler inspection procedure and frequency
- Hands-on experience in boiler operation
- Boiler safety check
- Boiler energy efficiency
- Requirements for higher efficiency of the boiler
- Boiler explosion and failure-case study
- Boiler registration procedure
- Boiler operator certification procedure

### VENUE

Directorate of Continuing Education (DCE), 3<sup>rd</sup> Floor, Institute Building, BUET, Polashi, Dhaka-1000. (Near Dr. M A Rashid Student Hall, BUET and BUET Gymnasium)

### REGISTRATION FEE

BDT **15,000/-** per Person (Tk. Fifteen Thousand Only)

The fee will cover printed lecture instructions, workshop kits, comprehensive materials, refreshments, certificates, etc.

### PAYMENT

Registration Fee is to be paid in advance payable through Pay Order/Demand Draft (DD) in favor of **Director, BRTC, BUET**, or electronically deposited at - Savings **Account No. 4404034173888**, **Account Name:** Director, Directorate of Continuing Education (DCE) Sonali Bank Ltd., BUET Branch, Dhaka.

**Seats are limited and the selection procedure will be First Come First Serve basis.**

### REGISTRATION FORM

#### Short Course On Boiler Operation, Maintenance, and Safety DCE, BUET

Please complete the registration form in BLOCK LETTERS and return it to the address overleaf.

**Name:** .....

**Affiliation:** .....

**Company Name:** .....

**Address:** .....

**Cell Phone:** .....

**Email:** .....

#### Payment:

- Pay Order/ Demand Draft (DD)
- Online Banking

*Please attach the original copy of the payment.*

#### Details of Pay Oder/Demand Draft:

Signature: .....

Date: .....



## Short Course on **Boiler Operation, Maintenance, and Safety**

Batch 01: 25 – 27 August 2023

*Venue: Lecture room, DCE, 3<sup>rd</sup> Floor, Institute Building, BUET*

### PROGRAM SCHEDULE

Day & Date	Time	Topics	Resource Person
<b>Day-1</b> 25 Aug. 2023 (Friday)	8:30 AM-9:00 AM	<b>Registration</b>	
	08:50 AM-09:15 AM	<b>Inauguration Ceremony</b> Welcome Address from Director, DCE	
	9:15 AM-10:45 AM	Lecture 01: <b>Introduction to Boilers</b>	<b>Prof. Dr. A.K.M. Monjur Morshed</b> Department of Mechanical Engineering, BUET.
	10:45 AM-11:15 AM	<b>Tea Break</b>	
	11:15 AM-12:30 PM	Lecture 02: <b>Boiler Registration and Renewal Procedure due to Regulation</b>	<b>Engr. Md. Hanif Hossan</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
	12:30 PM-2:30 PM	<b>Prayer and Lunch Break</b>	
	2:30 PM-4:00 PM	Lecture 03: <b>Industrial Boiler Operation</b>	<b>Prof. Dr. Md. Ehsan</b> Department of Mechanical Engineering BUET
	4:00 PM-4:45 PM	Lecture 04 (Part 01): <b>Boiler Inspection Procedure</b>	<b>Engr. Md. Sharafat Ali</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
	4:45 PM-5:00 PM	<b>Prayer Break</b>	
	5:00 PM-5:45 PM	Lecture 04 (Part 02): <b>Boiler Inspection Procedure</b>	<b>Engr. Md. Sharafat Ali</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
<b>Day-2</b> 26 Aug. 2023 (Saturday)	4:00 PM-4:45 PM	Lecture 05 (Part 01): <b>Industrial Boiler Maintenance</b>	<b>Engr. Md. Ziaul Hoque</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
	4:45 PM-5:00 PM	<b>Prayer Break</b>	
	5:00 PM-5:45 PM	Lecture 05 (Part 02): <b>Industrial Boiler Maintenance</b>	<b>Engr. Md. Ziaul Hoque</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh



## Short Course on **Boiler Operation, Maintenance, and Safety**

Batch 01: 25 – 27 August 2023

*Venue: Lecture room, DCE, 3<sup>rd</sup> Floor, Institute Building, BUET*

### PROGRAM SCHEDULE

Day & Date	Time	Topics	Resource Person
	5:45 PM-6:45 PM	Lecture 06: <b>Efficiency Estimation and Efficient Boiler Operation</b>	<b>Prof. Dr. Arif Hasan Mamun</b> Department of Mechanical Engineering, BUET.
	6:45 PM-7:15 PM	<b>Prayer and Tea Break</b>	
	7:15 PM-8:45 PM	Lecture 07 (Practical): <b>Hands-on Experience in Boiler Operation and Safety Check (Boiler Lab, ME)</b>	<b>Prof. Dr. Md. Ehsan &amp; Prof. Dr. A.K.M. Monjur Morshed</b> Department of Mechanical Engineering, BUET.
<b>Day-3</b> 27 Aug. 2023 (Sunday)	4:00 PM-4:45 PM	Lecture 08 (Part 01): <b>Requirement of Boiler Room</b>	<b>Prof. Dr. Md. Ashiqur Rahman</b> Department of Mechanical Engineering, BUET.
	4:45 PM-5:00 PM	<b>Prayer Break</b>	
	5:00 PM-5:45 PM	Lecture 08 (Part 02): <b>Requirement of Boiler Room</b>	<b>Prof. Dr. Md. Ashiqur Rahman</b> Department of Mechanical Engineering, BUET.
	5:45 PM-6:45 PM	Lecture 09: <b>Case Study: Boiler Explosion and Failure</b>	<b>Prof. Dr. A.K.M. Monjur Morshed</b> Department of Mechanical Engineering, BUET.
	6:45 PM-7:15 PM	<b>Prayer and Tea Break</b>	
	7:15 PM-8:45 PM	Lecture 10: <b>Boiler Act, 2022</b>	<b>Engr. Mohammad Abdul Mannan</b> Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
	8:45 PM ~	<b>Closing and Certificate Awarding</b> Chief Guest: <b>Prof. Dr. Satya Prasad Majumder</b> Honorable Vice-Chancellor, BUET	

**Course Co-Ordinator:**

**Prof. Dr. A.K.M. Monjur Morshed**

Department of Mechanical Engineering, BUET





Short Course on  
**Boiler Operation, Maintenance, and Safety**

Batch 02: 01- 03 September 2023

*Venue: Lecture room, DCE, 3<sup>rd</sup> Floor, Institute Building, BUET*

**PROGRAM SCHEDULE**

Day & Date	Time	Topics	Resource Person
<b>Day-1</b> 01 Sept. 2023 (Friday)	8:30 AM-9:00 AM	<b>Registration</b>	
	08:50 AM-09:15 AM	<b>Inauguration Ceremony</b> Welcome Address from Director, DCE	
	9:15 AM-10:45 AM	Lecture 01: <b>Introduction to Boilers</b>	<b>Prof. Dr. A.K.M. Monjur Morshed</b> Department of Mechanical Engineering, BUET.
	10:45 AM-11:15 AM	<b>Tea Break</b>	
	11:15 AM-12:30 PM	Lecture 02: <b>Boiler Registration and Renewal Procedure due to Regulation</b>	<b>Engr. Md. Hanif Hossan</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
	12:30 PM-2:30 PM	<b>Prayer and Lunch Break</b>	
	2:30 PM-4:00 PM	Lecture 03: <b>Industrial Boiler Operation</b>	<b>Prof. Dr. Md. Ehsan</b> Department of Mechanical Engineering BUET
	4:00 PM-4:45 PM	Lecture 04 (Part 01): <b>Boiler Inspection Procedure</b>	<b>Engr. Md. Sharafat Ali</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
	4:45 PM-5:00 PM	<b>Prayer Break</b>	
	5:00 PM-5:45 PM	Lecture 04 (Part 02): <b>Boiler Inspection Procedure</b>	<b>Engr. Md. Sharafat Ali</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
<b>Day-2</b> 02 Sept. 2023 (Saturday)	4:00 PM-4:45 PM	Lecture 05 (Part 01): <b>Industrial Boiler Maintenance</b>	<b>Engr. Md. Ziaul Hoque</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh
	4:45 PM-5:00 PM	<b>Prayer Break</b>	
	5:00 PM-5:45 PM	Lecture 05 (Part 02): <b>Industrial Boiler Maintenance</b>	<b>Engr. Md. Ziaul Hoque</b> Deputy Chief Inspector of Boilers Ministry of Industries Government of Bangladesh



Short Course on  
**Boiler Operation, Maintenance, and Safety**

Batch 02: 01- 03 September 2023

Venue: Lecture room, DCE, 3<sup>rd</sup> Floor, Institute Building, BUET

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<b>Day-3</b> 03 Sept. 2023 (Sunday)	4:00 PM-4:45 PM	Lecture 08 (Part 01): <b>Requirement of Boiler Room</b>	<b>Prof. Dr. Md. Ashiqur Rahman</b> Department of Mechanical Engineering, BUET.
	4:45 PM-5:00 PM	<b>Prayer Break</b>	
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