DIRECTORATE OF
CONTINUING EDUCATION
BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY (BUET)

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No. DCE- 007(207)/ Date: 06/08/2023

Announcement of Short Course on 'Fire Hydrant System (Standpipe and Fire pump)', 13-15 October 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 '**Fire Hydrant System (Standpipe and Fire pump)**' is going to be organized by the Directorate of Continuing Education (DCE), on 13-15 October 2023.

Fire hazards in Bangladesh are a recurring phenomenon with overwhelming loss of life and property. Among the different fixed fire protection systems available, the Standpipe and Hose System is one of the most widely used fire protection systems employed in almost all the occupancies in Bangladesh. However, an understanding of the design aspects, installation, maintenance and testing of the Standpipe and Hose systems and the associated components such as the Fire pump is extremely important for the proper functioning of these systems during a fire event. This course has been developed to address both the fundamental and advanced aspects of fire hydrant systems for efferent facilities. The main aim of this workshop is to provide a sound understanding and working knowledge of the requirement of standpipe systems, their components, the hydraulic calculation for fire demand, fire pump selection etc. for industries and commercial establishments.

Highly qualified, professionally trained, reputed, and experienced resource persons in the related areas, with ample theoretical and practical knowledge and current information, have been invited to conduct this course.

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 lecture instructions, comprehensive materials, refreshments, certificates, etc., excludes VAT & TAX.

Seats are limited and the application /nomination would be selected on a First Come First served basis, **Registration Deadline is 05th October 2023**.

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

We would appreciate it if you could kindly participate and/or nominate the concerned official(s) from your esteemed organization in this proposed short course.

For registration in this course,
Please scan below

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

CONTINUING EDUCATION
Path to Excellence

October 2023						
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

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

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, **200** 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:

- Providing the understanding of the principles, and components of fire standpipe and fire pumping systems.
- Providing the understanding of Hydraulic Calculations for selecting the fire pump.
- Handing over the documentation and reporting for fire Hydrant systems
- Giving participants the foundation knowledge and skills to perform limited routine service activities on fire hydrant systems
- Providing the knowledge of standpipe for high rise building
- Application of Sprinkler system

RESOURCE PERSON

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

For details please visit: dce.buet.ac.bd

DURATION

13 – 15 October 2023: (3 days)
(Friday - Sunday)

LANGUAGE

English and Bangla

CERTIFICATE

A certificate of attendance will be provided.

Short Course On

Fire Hydrant System

13 - 15 October 2023
BUET, Dhaka

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

CONTINUING EDUCATION
Path to Excellence

For registration in this course, please scan below

Fire hazards in Bangladesh are a recurring phenomenon with overwhelming loss of life and property. Among the different fixed fire protection systems available, the Standpipe and Hose System is one of the most widely used fire protection systems employed in almost all the occupancies in Bangladesh. However, an understanding of the design aspects, installation, maintenance, and testing of the Standpipe and Hose systems and the associated components such as the Fire pump is extremely important for the proper functioning of these systems during a fire event.

This course has been developed to address both the fundamental and advanced aspects of fire hydrant systems for efferent facilities. The main aim of this workshop is to provide a sound understanding and working knowledge of the requirement of standpipe systems, their components, hydraulic calculation for fire demand, fire pump selection, etc. for industries and commercial establishments.

WHO SHOULD ATTEND?

This course is for Engineers/Technical Personnel employed in the fire protection management/industry eager to learn new skills and therefore enhance career opportunities. Experienced Technical Personal can use the course to top up and validate existing skills and knowledge.

The following participants will get the most benefit from attending this short course:

- Practicing MEP Engineers
- Fire Safety Professionals
- Safety and Security Professionals
- Health & Safety Managers
- Compliance Officers
- Fire Safety Equipment Manufacturers/ Importers

PROGRAM OVERVIEW

Contents of the workshop are:

- Standpipe System Requirements
- Component of Standpipe System
- Standpipe system installation
- Standpipe system design & Hydraulic calculation
- Standpipe system acceptance and maintenance
- Fire pump basic requirements
- Fire pump components & accessories
- Fire pump installation
- Fire pump for high-rise building
- Pump maintenance
- Sprinkler System

VENUE

Directorate of Continuing Education (DCE), 3rd 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

Fire Hydrant System

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

Fire Hydrant System (Standpipe and Fire Pump)

Organized by: DCE, BUET

13 – 15 October 2023

COURSE COORDINATORS

Dr. Md. Ashiqur Rahman

Professor
Department of Mechanical Engineering
Bangladesh University of Engineering and Technology
Dhaka-1000, Bangladesh.
Email: ashiqurrahman@me.buet.ac.bd
Contact: 01715496339

Short Course

Fire Hydrant System (Standpipe and Fire Pump)

Organized by: DCE, BUET
13 – 15 October 2023

Program Schedule

Date	Time	Event/Topic and Resource Person	
13.10.2023 (Friday)	08:30 AM-09:00 AM	**Registration**	
	09:00 AM-09-15 AM	**Inauguration**	
	09:15 AM-10:45 AM	Lecture 1: **Stand Pipe System Requirements**	**Professor Dr. Md. Ashiqur Rahman** Department of Mechanical Engineering at BUET
	10:45 AM-11:00 AM	**Tea Break & Networking**	
	11:00 AM-12:45 PM	Lecture 2: **Component of Standpipe System**	**Eng. Parvez Mahmood** NFPA-13,72,101 Certified & Director, ICEL Private Limited
	12:45 PM-02:30 PM	**Lunch & Prayer Break**	
	02:30 PM-03:00 PM	Lecture 2: **Component of Standpipe System**	**Eng. Parvez Mahmood** NFPA-13,72,101 Certified & Director, ICEL Private Limited
	03:00 PM-04:30 PM	Lecture 3: **Standpipe System Installation and Design**	**Eng. Parvez Mahmood** NFPA-13,72,101 Certified & Director, ICEL Private Limited
	04:30 PM-04:45 PM	**Tea & Prayer Break**	
	04:45 PM-06:00 PM	Lecture 4: **Hydraulic Calculation**	**Eng. Zia Uddin Ahmed** Fire Hydrant Expert and Director, Banmech Limited
	06:00 PM-06:30 PM	**Tea & Prayer Break**	
	06:30 PM-7:30 PM	Lecture 4 [Cont..]: **Hydraulic Calculation**	**Eng. Zia Uddin Ahmed** Fire Hydrant Expert and Director, Banmech Limited
14.10.2023 (Saturday)	02:30 PM-03:30 PM	Lecture 5: **Standpipe System acceptance and maintenance**	**Eng. Fazlul Bari** Certified Fire Protection Specialist & CEO, Optimum Engineer Ltd (OEL)
	03:30 PM-04:30 PM	Lecture 6: **Fire Pump Components and Accessories**	**Eng. Fazlul Bari** Certified Fire Protection Specialist & CEO, Optimum Engineer Ltd (OEL)

Short Course

Fire Hydrant System (Standpipe and Fire Pump)

Organized by: DCE, BUET
13 – 15 October 2023

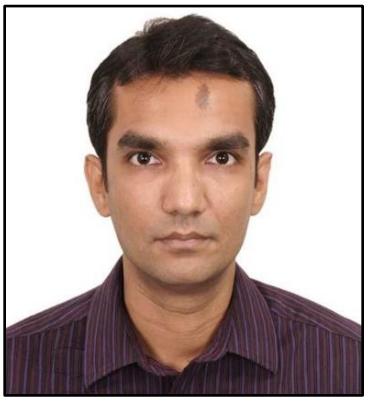
Program Schedule

Date	Time	Event/Topic and Resource Person	
	04:30 PM-04:45 PM	**Tea & Prayer Break**	
	04:45 PM-06:00 PM	Lecture 7: **Fire Pump Basic Requirements**	**Eng. Fazlul Bari** **Certified Fire Protection Specialist & CEO, Optimum Engineer Ltd (OEL)**
	06:00 PM-06:30 PM	**Tea & Prayer Break**	
	07:00 PM-08:30 PM	Lecture 8: **Fire Pump Installation and Group Exercise**	**Eng. Musfiqul Azad** **Principal and Technical Committee member of NFPA**
15.10.2023 (Sunday)	02:30 PM-03:45 PM	Lecture 9: **Fire Pump T&C**	**Eng. Musfiqul Azad** **Principal and Technical Committee member of NFPA**
	03:45 PM – 05:00 PM	Lecture 10: **High-Rise Building**	**Eng. Musfiqul Azad** **Principal and Technical Committee member of NFPA**
	05:00 PM-05:15 PM	**Tea & Prayer Break**	
	05:15 PM-6:00 PM	Lecture 11: **Pump Maintenance**	**Eng. Zia Uddin Ahmed** **Fire Hydrant Expert and Director, Banmech Limited**
	06:00 PM-06:30 PM	**Tea & Prayer Break**	
	06:30 PM-7:00 PM	Lecture 11: **Pump Maintenance**	**Eng. Zia Uddin Ahmed** **Fire Hydrant Expert and Director, Banmech Limited**
	7:00 PM-7:30 PM	**QUIZ**	
	7:30 PM	**Certificate Award Ceremony** **Chief Guest: Prof. Dr. Satya Prasad Majumder** **Honorable Vice-Chancellor, BUET**	

**** Break time may be adjusted based on the prayer timetable.***

CONTINUING EDUCATION
Path to Excellence

COURSE INSTRUCTOR'S BIOGRAPHY



Professor Dr. Md. Ashiqur Rahman is a professor in the Department of Mechanical Engineering at BUET, Dhaka, Bangladesh. He received his Ph.D. degree from the University of Illinois at Urbana-Champaign, USA in 2013. Before that, he completed his BS and MS from Bangladesh University of Engineering and Technology (BUET). Dr. Rahman conducts both numerical and experimental studies in the field of fluid mechanics, thermal sciences, and energy systems. Of particular interest are the study of Fire Dynamics, Fire and Evacuation Modelling, Surface Wettability, and Energy Storage Systems. Dr. Rahman is highly interested in interdisciplinary works and hence is enthusiastic about research collaborations. He has served on many technical committees and has worked on a range of projects of both national and international importance and exposure.

Parvez Mahmood is a Director of ICEL Private Limited, which is one of the largest and oldest Fire Safety and Physical Security system integrator company in Bangladesh. He has been working in the field of fire safety and security from 2007. Currently he is leading the consultancy department of ICEL - the department that is responsible for preparing fire detection, standpipe and sprinkler system design and getting those design approved by relevant authorities. His work mainly focused on RMG sector, tobacco industry, general manufacturing facility, high piled storage, and high-rise commercial building. He completed his B.Sc. from department of Electrical and Electronic Engineering of BUET and MBA from HULT International Business School. He did courses on NFPA – 72, National Fire Alarm and Signaling Code (2013 & 2016), NFPA – 13, Standard for Installation of Sprinkler System (2013 & 2016), and NFPA – 101, Life Safety Code (2012)

Parvez has expertise on proposing fire safety plan, managing safety and security system projects and designing fire detection system, fire hydrant/standpipe system, sprinkler system, deluge system & pre-action system as per NFPA, FM Global and BNBC requirements.

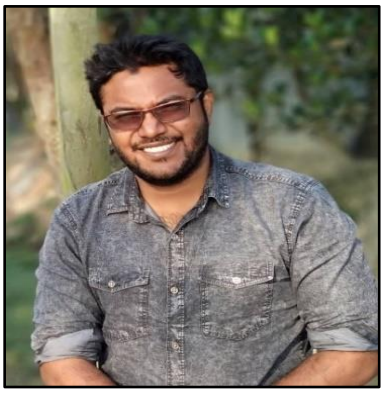
COURSE INSTRUCTOR'S BIOGRAPHY

Engr Fazlul Bari, is a CFPS (Certified Fire Protection Specialist), Who is currently managing the responsibility as a CEO of Optimum Engineers Limited (OEL). Optimum Engineers Limited (OEL) is a rising MEP company in Bangladesh. He has a lot of experience as a fire safety engineer from different reputed organizations like Alliance for Bangladesh Worker Safety, Nirapon, Elevate.

He has completed his graduation from DUET in Mechanical Engineering and post-graduation from BUET in Mechanical Engineering respectively. Also, he did the course on NFPA-20. He is a member at the Engineering Institute of Bangladesh and also a member of ASHRAE. He has expertise in Active and Passive Fire Protection and HVAC(Heating ventilation and air conditioning)

Zia Uddin Ahmed is the Technical Director of Banmech Limited, one of the leading companies in the Fire & HAVC sector doing turnkey projects in Bangladesh.

He attained his BSc. in Mechanical Engineering from the Bangladesh University of Engineering and Technology (BUET). After finishing his BSc. he started his professional career in the Fire & HAVC sector. He has considerable and diversified experience in Fire & HAVC sector for more than 10 years. His work mainly focused on the RMG sector, Power plants, MNC, Tobacco industries, Hotels, Paint Industry, Telecom sector, High-rise commercial buildings, etc. His area of expertise is in designing fire hydrant system, fire sprinkler system, fire detection systems, deluge system, pre-action system, fire safety plans, Foam suppression system, Gas suppression system as per NFPA, FM Global, BNBC code and designing HVAC system as per ASHRAE, BNBC requirements.



Engr. Musfiqul Azad Principal (Special Expert) and technical committee member of NFPA and Fire Specialist of UNOPS. He is also a Director of Prokausholee Bangladesh, a leading MEP consultancy firm in Bangladesh and overseas. He has been working in the field of fire safety and security since 2013. Currently, he is leading the Fire consultancy department of Prokausholee Bangladesh - in designing and implementing fire detection, standpipe, sprinkler system, Fire pre-action system, Fire suppression system. His job/research interest also includes Analysis of Fire and Smoke Propagation through Fire Dynamics Simulation.