

## First Information Brochure

### Two-day **Workshop** on **Occupational Health and Safety in Industries: Issues and Challenges from an International Perspective**

2<sup>nd</sup> - 3<sup>rd</sup> February, 2024

#### Organized by



Department of  
Industrial and Systems  
Engineering, IIT  
Kharagpur

#### In association with



TXHI Global Health and  
Technology Private Limited,  
Kolkata

&



Texas Healthtech Institute,  
Texas, USA

#### Venue

Indian Institute of Technology, Kharagpur  
Kolkata Extension Centre, HC 7, Sector III,  
Bidhannagar, Kolkata, West Bengal 700106

### About TXHI Global Health and Technology Private Limited, Kolkata.

TXHI Health and Technology Private Limited, Kolkata, is located in the premises of the Research Park of Indian Institute of Technology (Kharagpur) at New Town, Kolkata 700156. The basic activities of this Institute is to provide academic and industry interface to heavy, medium and small industries. Four professionals who are alumni of IIT Kharagpur have formed the institute. Two of them are industrial experts in the field of metals & mining and Oil & Gas sector. Other two are academics in the field of Industrial Engineering, Business Management, and Healthcare Technology. TXHI Global Healthtech provides:

- i) Training in Industrial engineering field.
- ii) Industrial consultancy
- iii) Medical data analysis
- iv) Skill development on use of medical equipment/technology.
- v) Incubation facility to entrepreneurs.

#### Introduction

Occupational health and safety are a discipline with a broad scope involving many specialized fields. In its broadest sense, it aims at:

- promotion and maintenance of the highest degree of physical, mental and social well-being of workers in all occupations;
- prevention among workers of adverse effects on health caused by their working conditions;
- protection of workers in their employment from risks resulting from factors adverse to health;
- placing and maintenance of workers in an occupational environment adapted to physical and mental needs; and
- adaptation of work to humans.

Occupational health and safety encompass the social, mental and physical well-being of employees. Successful occupational health and safety practice requires the collaboration and participation of both employers and workers in health and safety programs, and involves the consideration of issues relating to occupational medicine, industrial hygiene, toxicology, education, engineering safety, ergonomics, psychology, etc.

Work plays a central role in people's lives, since most workers spend at least eight hours a day in the workplace, whether it is on a plantation, or in an office, factory, etc. Therefore, work environments should be safe and healthy. Yet this is not the case for

many work places. Every day workers all over the world are faced with a multitude of health hazards, such as:

- dusts;
- gases;
- noise;
- vibration;
- extreme temperatures.

### **Objectives of the Workshop**

At the end of this workshop, trainees will be able to:

- (1) Explain that occupational health and safety is more than accident prevention — that it encompasses all aspects of working conditions;
- (2) Explain why management's commitment to health and safety is crucial;
- (3) Explain why training is a critical component of any health and safety programme;
- (4) Recognize a number of occupational hazards and some of the types of work generally associated with those hazards;
- (5) Discuss the range of hazards in their own workplaces.

### **Topics**

1. Importance of health and safety in the workplace with occupational health & safety
2. Overview of Human-Product Interfaces in Healthcare System
3. Identifying Health and Safety Concerns in Industries, OHS Standards
4. Electrical, Fire, Radiation & Chemical Hazards and prevention
5. Mechanical Hazards and Machine safeguarding.
6. Total safety Management, Quality Management setting
7. Standards, rules and regulations for safety: OSHAS 18001, industrial safety rules and regulations in India.

### **Who should participate**

This is a Two-day workshop designed for middle / senior level managers in industries. Participation from any industry is welcome as the topics are generic and applicable to any company.

### **Teaching facility**

Four faculty members who are having around four decades of industrial experience and academic experience will be conducting the sessions. Industry experts will also present at the workshop.

The teaching will be made through LCD projector, white board, marker pen, internet facility, videos of case study etc.

Participants needs to have laptop / tablet / Mobile / scientific calculator for his / her use.

### **Program Schedule**

The program will be from 9.00 am to 5.00 pm with 3 breaks. 1<sup>st</sup> and 3<sup>rd</sup> break will be for 15 min each for tea and snacks. 2<sup>nd</sup> break will be for 1 hour for lunch.

Tea, Snacks and lunch will be provided at the program venue.

### **Accommodation**

Participants shall have to arrange their own accommodation. Budget hotels are available with in distance of 3 km.

### **Registration fee**

Rs 10000.00 for Indian participants  
USD 200 for foreign participants  
Last date of Registration: 27.01.24

### **Contact**

Er. Sitangshu Saha  
Email: txhiglobaltech@gmail.com  
Mobile: 9434534859, 987532943

## Faculty Members



**Prof Pradip Kumar Ray** Department of Industrial and Systems Engineering, IIT Kharagpur.  
Academic experience: 34 years; Industrial experience: 8 years.



**Prof Purnendu Mandal**  
President of Texas Healthtech Institute, USA;  
College of Business, Lamar University, USA;  
Academic and Industrial consultancy: 38 years



**Er Asoke Kumar Paul**  
Ex General Manager In-charge, R & D Centre for Iron and Steel, SAIL  
Industrial experience: 38 years; academic experience: 6 years



**Er Sitangshu Saha**  
Industrial Consultant and Entrepreneur  
Industrial experience: 44 years

## Registration form

### Occupational Health and Safety in Industries: Issues and Challenges from an International Perspective

2<sup>nd</sup> - 3<sup>rd</sup> February, 2024

#### Venue:

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1. Name: \_\_\_\_\_

2. Affiliation: \_\_\_\_\_

3. Educational Qualification: \_\_\_\_\_

4. Address for Correspondence: \_\_\_\_\_

5. Telephone No: \_\_\_\_\_

6. Email: \_\_\_\_\_

#### 7. Bank Draft Details:

Draft No:

Bank Name:

Date:

Amount Rs.

Or Remit to: **Canara Bank, Branch – SRIC IIT**

**Kharagpur, IFSC Code: CNRB0019556 Account No:**

**95562200002955, Swift code – CNRB-IN-BB-BFD**

**Signature of participant**

**Signature of Sponsoring Authority (With Seal)**