

*Executive Development*  
*Under*  
***Continuing Education Program of IIT Kharagpur***

*on*

**ASSESSMENT OF SAFETY MATURITY LEVEL AND MANAGEMENT OF ASSETS  
FOR HIGHER PRODUCTIVITY AND SAFETY**

(November 11-15, 2019 at Department of Mining Engineering, IIT Kharagpur)

Industrial performance is measured through widely accepted indicators of productivity and safety. Irrespective of industries, productivity and safety is an outcome of capacity utilization of deployed assets including Human Resources. The safety behavior of the employees is the reflection of performance of the operational and supervisory systems. In the present trend of information based industrial management data driven decision making is increasingly becoming very important. Advanced countries have already moved towards scientific asset management and implementation of ISO 55000. Terotechnology is being implemented as an integral of system management. Life cycle costing is becoming a primary driving force.

In these backdrops, the present course is designed to train the middle level managers on the methodologies used for assessment of safety maturity level of any industrial system. The basic principles of asset management will be covered in the training programme so that the participants can plan for their workplaces to carry out a detailed assessment of safety maturity level to initiate necessary changes in their safety monitoring, safety training, safety reporting for enhancement of productivity and reduction of system downtime.

It is expected that there will be national and international experts directly or by distance mode. The method of training will be interactive participation mode supported by distribution of study materials and worksheets. Participants will be given opportunities to present their practical cases for facilitating development of prescriptive solution for their problems. The participants in this course will be made permanent user of a MOODLE (<http://www.miningpedagogy.iitkgp.ac.in/moodle/login/index.php>), a site dedicated to teaching learning and will be able to use the platform for interacting with experts for resolving issues related to their work for safety management.

We at the Department of Mining Engineering of Indian Institute of Technology, Kharagpur believe in continuous and lifelong learning and we design courses for the engineers in the mining Industry to train them in specific areas. The present course is one of such courses for the practicing engineers. The participants will be encouraged to continue their exposure to the learning environment at the Department of Mining Engineering at IIT Kharagpur for their professional development using various online resources and contacts.

**Course Content:** The course will include the following broad areas:

- Safety Maturity Level- Definitions and Indicators.
- Plant and Equipment wellness and physics of failure concepts.
- System monitoring and database development for data analysis and critical decision making.
- Introduction to industrial data analysis.
- Introduction to Asset Management and ISO 55000.
- Terotechnology and its application

## Course fee

The course fee of this non-residential course is **Rs. 30,000.00** per participant. Payment can be made either by the following listed options.

1. Payable by demand draft in favor of "**CEP-STC, IIT, Kharagpur**" payable at **Kharagpur**
2. Electronic money transfer to "**CEP STC IIT Kharagpur**" to the account number **9556220002955** of **Syndicate Bank at Branch SRIC IIT Kharagpur (IFSC Code SYNB0009556)**. **Transaction ID (NEFT/RTGS No. with date)** is essential while transferring the course fees through electronic money transfer.

The course fee does not include boarding and lodging charges. IIT Kharagpur is exempted from Income Tax and while sending the course fee no Tax should be deducted. GST @18% will be charged extra as per GoI rules.

**Companies sending more than 4 participants will avail the following reduced fee:**

1. For 5 participants: Rs 1, 45,000.00 (Excluding boarding & lodging).
2. More than five participants: Rs. 28,000/- for every additional participant (Excluding boarding & lodging).
3. The above course fee does not include GST that will have to be paid additionally by the sponsors as per GOI rule.

## Accommodation for the Course Participants

The course will be **Non-Residential**. Accommodation in the campus is considered convenient and can be booked at the **Technology Guest House on payment basis of IIT Kharagpur** on prior request.

## Address for Communication

For any other information or sending nomination please write to:

### **Prof. Khanindra Pathak**

Course Coordinator

Department of Mining Engineering

IIT Kharagpur-721302

Phone: 03222283722, Mobile: 09800877877

Fax: 03222282700/282282

E-mail:

khanindra@mining.iitkgp.ernet.in/

khanindra.p@gmail.com

### **Mr. Sourav Kr. Mandal**

Course Manager

Department of Mining Engineering

IIT Kharagpur-721302

Mobile: 8436718289/9732952854

E-mail: souravm.iitkgp@gmail.com

## **Department of Mining Engineering, IIT Kharagpur**

Set up in the year of 1956, this Department has steadily grown as one of the best mining education centre in the country. Besides offering undergraduate, postgraduate, and doctoral courses in Mining Engineering, it is actively involved in short term courses and research activities in the areas of Mining Machinery, Mine Safety and Reliability, Mine Fire and Explosions, Model Studies in Ventilation, Rock Mechanics and Ground Controls, Numerical Analysis of Mine Structures, Underground and Surface Environment, Geometrics and Remote Sensing, Mine Closure Planning and relevant computer applications. Short-term courses, consultancy, sponsored research programmes and postgraduate project works are part of the department's regular activities.