

GLOBAL INITIATIVE FOR ACADEMIC NETWORKS



National Coordinating Institute
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

www.gian.iitkgp.ac.in

SAFETY & LOSS PREVENTION

Overview

Safety engineering, risk assessment, loss prevention, waste treatment, fire, explosion, toxic and environmental hazards have become topics of primary importance both to industry and public. Too many people have been killed in recent plant accidents. The public and governments worldwide are increasingly requiring industry to assess and control risks associated with their operation. Moreover, according to new legislations in most countries all companies in the process industries must perform risk assessment using the techniques, which will be lectured in our course. There is a great demand worldwide for specialists in this field. The primary objectives of the course are to develop an understanding of safe practices in design and operation of chemical engineering processes in all stages of chemical engineering design, risk assessment, methods of hazard evaluation (both qualitative and quantitative), risk associated with toxic, flammable and explosive materials. On successful completion of this module, the participants will have demonstrated their ability

- To evaluate impact of engineering activity on the social, industrial and physical environment (the impact of technology on society and environment, occupational and public health and safety).
- To evaluate risk associated with process materials (chemical and toxicological).
- To make safe process design decision.
- To apply fundamental engineering and science knowledge together with process design skills in a variety of case studies to evaluate process safety (qualitatively and quantitatively) based on their understanding of hazard evaluation methods; and chemical, environmental and toxic hazards associated with process materials.

Modules

A: Fundamentals Safety & Loss Prevention: June 06 - June 11, 2016

Number of participants for the course will be limited to fifty.

You Should Attend If...

- Executives, Engineers, in-charges of Safety and Environmental Section of Chemical and Allied Process Industries, Govt. and Pvt. Organizations, Researchers, Scientists in R&D laboratories, Policy makers of Govt. regulatory bodies including Pollution Control Boards etc. Faculty Members of Engineering Institutions / Universities teaching UG/PG courses of related discipline.
- Students at all levels (BTech / MSc / MTech / PhD) or equivalent.

Fees

The participation fees for taking the course is as follows:

Participants from abroad : US \$ 500

Industry / Research Organizations: ₹ 30000

Academic Institutions: ₹ 10000

Bonafide students of Academic Institutions: ₹ 1000 (to be refunded after completion of course)

The above fee include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided with accommodation on payment basis.

The Faculty



Prof. Milan Carsky is a Professor Emeritus, Chemical Engineering, School of Engineering, Howard College at the University of KwaZulu-Natal in Durban, South Africa. Prof. Carsky has more than 30 years teaching and research experience and expert in safety and loss prevention. He has been several times as head of department of Chemical Engineering at his University, member of the University Senate chairman of the departmental HAZOP committee, and the university representative at the accreditation committee. He is an Editor in Chief of the South African Journal of Chemical Engineering and a member of the organizing committee of the conference IFSA. He is a member of the South African Institution of Chemical Engineers and a Czech Society of Chemical Engineers.



Prof. B. C. Meikap is a Professor of Chemical Engineering, Indian Institute of Technology, Kharagpur. He has 23 years teaching and research experience in the area of industrial pollution control, hazardous waste treatment & management and process safety. He is Member of many professional societies like AIChE, IChemE, RSC, IChE, SAChE & IE(I). He has published over 100 journal papers in international journals.

Course Co-ordinator

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Registration Process

Registration for GIAN courses is not automatic because of the constraints on maximum number of participants allowed to register for a course. In order to register for one or multiple non-overlapping courses, you have to apply online using the following steps:

1. **Create login and password at <http://www.gian.iitkgp.ac.in/GREGN/index>**
2. **Login and complete the registration form.**
3. **Select Course: 151001B03 : SAFETY & LOSS PREVENTION**
4. **Confirm your application and payment information.**
5. **Pay ₹ 500 (non-refundable) through online payment gateway.**

The course coordinators of the selected courses will go through your application and confirm your selection as a participant one month before the starting date of the courses. Once you are selected you will be informed and requested to pay the full fees through online payment gateway service.

