

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 postgraduate programme. 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...	<ul style="list-style-type: none">• Executives, engineers involved in chemical engineering design and manufacturing, researchers from academia and manufacturing, service and government organizations including R&D laboratories.• Students at all levels (BTech/MSc/MTech/PhD) or Faculty Members/Scientists from reputed academic institutions and technical institutions.
Fees	The participation fees for taking the course is as follows: Participants from abroad : US \$500 Industry/ Research Organizations: Rs. 30000 Academic Institutions: Rs. 10000 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

Prof. B. C. Meikap
Department of Chemical Engineering
Indian Institute of Technology Kharagpur
Kharagpur 721302
Phone: 03222-283958
E-mail: bcmeikap@che.iitkgp.ernet.in
bcmeikap@gmail.com
