

Training package: IEM Continuous Professional Development Course 6hrs

Venue: Maritime Crystal Beach Hotel Belle Mare, Conference Room

Date: 26 July 2023

Course outline

Part 1 (Dr Vimi Dookhun - Chemical Safety Expert) 3 hrs

Hazard Identification and Risk Analysis

Process Safety Analysis

Hazard Identification Techniques

Gender Mainstreaming in Chemical Risk assessment

Risk Management ISO 31000

Part 2 (Mr Gautam Jawaheer – Registered Engineer) 3 hrs

Process Safety Management

Strong reasons for Managing H&S (legal, Financial, Moral)

Health & Safety Management Systems (based on HSG65 or ISO 45000)

Course objectives

This course will develop your understanding of the risk assessment methodology and how to conduct a hazard analysis effectively in process safety and environmental management. It will demonstrate how the risk assessment methodologies like bowtie method and HazOp methods provide the right level of detail to facilitate understanding and risk-based decision making, without oversimplifying a process. The Gender Mainstreaming in chemical risk assessment is in line with the SDG where participants will appreciate the need to disaggregate data collection for men and women chemical exposures while being sensitized on the emerging concerns such as nanomaterials. The course is complemented with a refresher course on international standards in the field of process safety and management for an effective implementation in process industries. Participants will have the opportunity to work on practical exercises in collaboration with others and explore the relationship of the hazard analysis techniques with operations and maintenance activities; the role that barrier failure has played in familiar incidents and human and organisational factors. The course aligns with current industry guidance and is supported by facilitated discussions and interactive sessions moderated by a registered engineer to encourage you to consider your understanding of key issues and your ability to make cogent and timely decisions that respond to the concerns of the public, the regulator, staff, contractors and investors. During the course, you will be encouraged to create a personalised action plan to enhance your contribution to process safety in your business as a responsible leader.

Who should attend? Engineers with basic knowledge in process safety working in management, operations and as maintenance personnel with responsibility of

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managing hazards and implementing sustained risk control measures; Engineering students and employees working in an environment with presence of chemicals as process materials.

CPD Course Programme

8.30 – 9.00 am Registration

9.00 – 9 15 am Welcome Address by President IEM and opening of training

9 15 – 9.30 am Introduction of Participants

Part 1 Dr V Dookhun, IEM Member

9.30 – 10.30 am **Process Safety Analysis**

10.30 am to 10.45 am Tea Break

10.45 am to 11.10 am **Hazard Identification Techniques**

11.10 am to 11. 45 am **Hands-on Experience on Bowtie Method and HazOp**

11.45 am to 12.00 **Gender Mainstreaming in Chemical Risk Assessment**

12.00 to 12 30 **Risk Management ISO 31000**

12.00 to 12.45 **Discussions and Q& A**

12.45 to 13 30 Lunch Break

Part 2 Mr G Jawaheer, Registered Engineer, IEM Member

13 30 to 14 45 **Strong reasons for Managing H&S(legal, Financial, Moral)**

14 45 to 15 00 Tea Break

15 00 to 15 45 **Engineers' contribution in successful HS management**

15 45 to 16 30 **Health & Safety Management Systems (based on HSG65 or ISO 45000)**

Please note that the facts, figures and case studies will be used amply during the above presentation.

16 30 to 16 45 Award of Certificate of Attendance to Participants

16 45 to 17 00 Closing remarks

Cost per participant is Rs 4000 (Tea breaks, open buffer lunch, participant certificates and conference packs are inclusive of the cost)

For more information contact : Mrs C Lebon on the +23059743065

IEM House

Register for the course on the following link:

<https://forms.gle/n9pykyS6WHabYViZ8>