

# DIGITAL CLASSROOM BOWTIE BARRIER-BASED RISK MANAGEMENT



23 – 24 June 2020 | 2 Days



9:00 AM – 1:00 PM (GMT +8)



Zoom Pro Application



From RM 495/pax

## Program Overview

Modern day thinking on risk management puts heavy emphasis on the use of defences or barriers to prevent losses attributed to organizational disturbances. Failure of these barriers leads to unwanted incidents.

Barrier management is therefore an important facet of risk management. The Bowtie technique is ideally suited for this purpose, allowing detailed analysis of prevention and mitigation measures – in other words, the barriers – for specific hazards and their ultimate consequences. Effective barrier management involves linking the barriers on the Bowties to specific elements of the management system such as HSE-critical activities/tasks and their accountabilities/responsibilities, standards, policies and remedial actions to address any shortfalls.

The Bowtie technique uses a visual format, thus facilitating risk communication. It is currently widely used in such diverse sectors as oil and gas, chemical process, power generation, mining, aviation/aerospace, healthcare, manufacturing, IT security, finance and government.

This two-day and 4-hour per day course is aimed at risk management professionals and practitioners. In this Digital Classroom, the delegates will be highlighted with the key principles of the Hazards and Effects Management Process (HEMP) and how the Bowtie technique can augment risk management in their organizations, at the same time facilitating effective risk communication. Participants will be required to undertake a number of worked exercises in order to gain practical experience with the use of Bowties.

## Key Modules

- Introduction & Overview of the Hazards and Effects Management Process Exploration Activity
- Principles of Loss Prevention and the Accident Causation Model, Barrier-based Risk Management
- Interactive Bowtie Workshop – Use of the BowTieXP Software
- The Essentials of Barrier Management
- Bowtie Analysis and Building Bowtie Models Using the BowTieXP software

## Who should attend?

Practitioners and specialists in:

- Management of HSE
- Process Safety
- Operations & Maintenance,
- Engineering Design
- Projects and Enterprise Risk

## What you will learn?

- Achieve an understanding of the key principles of HEMP and the Bowtie Methodology;
- Gain an understanding of the principles that underlays loss causation. Loss prevention and barrier-based risk management;
- Acquire hands-on experience in building complete Bowtie models and performing Bowtie analysis using the BowTieXP software, and;
- Achieve a firm grasp of the essential requirements for the effective implementation of barrier management.

## Course Methodology

- Interactive Learning
- Real Case Studies
- Worked Exercises
- Q&A Session





## FAIZAL FARID WAJIDI

Faizal Farid Wajidi is an Independent Principal Consultant, specializing in HSE Risk Management, Health Physics and nuclear applications. He has more than 35 years of professional experience, mainly spent in the major hazard sector.

Faizal has broad experience of applying risk management tools and has applied the software-based Bowtie tool for offshore HSE Case studies. Among the earliest users of the BowTieXP software, he is a qualified and experienced Bowtie workshop facilitator having led several HSE risk- and Enterprise risk-based Bowtie workshops for safety regulators and for major companies in the oil and gas, petrochemical, road transportation, maritime and aviation/aerospace sectors in Malaysia, Indonesia and Singapore.

Faizal has previously worked with Shell, Schlumberger, ICI Physics and Radioisotope Services Group, Enviros, Risktec and DNV GL. He graduated from the University of Reading, United Kingdom, with a B.Sc (Hon) degree in Mechanical Engineering and Mathematics.

## COMMENT AND REVIEW

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