

# BARRIER-BASED RISK MANAGEMENT: PREVENTING LOSSES THROUGH THE USE OF THE BOWTIE TECHNIQUE

2 Days | Kuala Lumpur

## 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.

The Bowtie technique 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 workshop provides participants with a firm grounding of the principles of the Hazards and Effects Management Process (HEMP) and the theoretical and practical aspects of Bowtie applications. Participants will be required to undertake a number of worked exercises in order to gain practical experience with the use of Bowties.

## Who Should Attend?

This course is designed for specialists in the management of HSE, Operational, Maintenance, Project and Enterprise Risk.

## Learning Objectives

This course is designed to help participants to:

- ▶ Achieve an understanding of the key principles of HEMP and the Bowtie Methodology
- ▶ Apply Bowties in a correct manner to manage hazards associated with the client's operations, activities and facilities.

## Key Modules

- ▶ Overview of the Hazards and Effects Management Process (HEMP)
- ▶ The Principles of Incident Causation & Loss Prevention and the Technical Foundation of the the Bowtie Technique
- ▶ Interactive Bowtie Workshop and the BowTieXP Software Lesson
- ▶ Bowtie Analysis - Syndicate Exercises
- ▶ Barrier Management
- ▶ Building Bowtie Models - Syndicate Exercises
- ▶ HAZID and the Bowtie Techniques
- ▶ HAZID and Bowtie - Syndicate Exercises



### 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

BY PETRONAS CARIGALI MURIAH LTD

*"THE TRAINER CAN RELATE THE MATERIALS WITH OUR ACTIVITIES HENCE GIVING US MORE ENTHUSIASM"*

*"VERY GOOD TRAINING MATERIAL & INSTRUCTOR"*

*"HE HAS LONG TRACK RECORD IN RISK MANAGEMENT TRAINING"*

*"GOOD COMMUNICATION, FRIENDLY, ANSWER ALL QUESTIONS"*

*"HE HAS A LOT OF EXPERIENCE ON BOWTIE TRAINING"*