

# BOWTIE RISK MANAGEMENT AWARENESS TRAINING COURSE

For Senior Managers

1 Day | Kuala Lumpur

**THIS TRAINING IS  
IMPORTANT THING TO  
IDENTIFY MAJOR  
ACCIDENT HAZARD  
AND CAN BE APPLIED  
TO DEVELOP  
COMPREHENSIVE RISK  
ASSESSMENT (BOWTIE)**

PETRONAS CARIGALI MURIAH LTD

## 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 former involves establishing and maintaining barriers so that the risk faced at any given time can be handled by preventing an undesirable incident from occurring or by limiting the consequences should such an incident occur. Effective barrier management requires the adequate deployment of people, equipment/facilities and systems.

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. Additionally, the visual format used in the Bowtie diagrams facilitates risk communication.

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 one-day course is aimed at senior management who are responsible/accountable for barrier management, highlighting 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.

## Who Should Attend?

This course is designed for senior-level managers responsible for 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 the Hazards & Effects Management Process (HEMP) and the Bowtie Methodology
- ▶ Read, understand and make improvements on Bowtie diagrams in relation to their use in the management of hazards and risks associated with the client's operations, activities and facilities

## Key Modules

- ▶ Overview of Risk Management
- ▶ The Bowtie in the Hazards and Effects Management Process (HEMP)
- ▶ The Principles of the Bowtie Methodology
- ▶ Interactive Bowtie Workshop
- ▶ Barrier Management
- ▶ Group Exercise: Construction of Bowtie Models
- ▶ The BowTieXP software - demonstration



### 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"*