

HS1 HEALTH, SAFETY, AND ENVIRONMENTAL RISK (Identification, Assessment, and management)

PETRO-TEC

IN-HOUSE

COURSE OVERVIEW

- a) To enhance the awareness of the close relationship between the engineering processes and activities and the occupational health and safety risks that might be involved to employees and others; and
- b) To outline the legislation and sources of “the best practice” in this field by which the industry can regulate and control risks and hazards.

WHO SHOULD ATTEND

This course is designed for engineers, and scientists involved in industrial projects, with special emphasis on the oil industry projects.

COURSE CONTENT

The course will consist of lectures and workshops covering the following.

LECTURES:

- Session 1** Introduction and overview of the entire course. The concepts of hazard and risk in life, in business, and in the industry. The petroleum Industry & the environment.
- Session 2** Industrial health and safety risks; accidents and ill health statistics and trends. Individual & organisational risks, societal risks, and Environmental risks.
- Session 3** UK and European health and safety legislation. Acts, regulations and legal codes of practice. Civil and criminal law. Powers of Inspectors.
- Session 4** How organisations approach the control of risk. Policy; planning; organisation; implementation; resourcing; motivation; training etc.
- Session 5** The professional's duty of care in risk issues. Frameworks specified by the Engineering Council and professional qualifying bodies.
- Session 6** Case studies & discussion.
- Session 7** Hazard identification and risk assessment. System risk management and formal means by which risks may be prioritised.
- Session 8** Motivating people for high health and safety performance. Safety culture,

values, beliefs, behavior.
Avoidance of human error.

Session 9 Auditing and benchmarking for health and safety. Sources of reference for further study and course review.

WORKSHOPS:

There will be two workshops covering Motivation and Barriers relating to people working safely. It will involve:

- One) splitting the participants into groups to prepare their own safety recommendations on specific case studies;
- Two) evaluate the safety procedures for some pre-prepared examples;
- Three) have a plenary session for each group to report back and present their reasons;
- Four) form a discussion round the results from all the groups.

**THE LECTURER
ONE OF PETRO-TEC CONSULTANTS**