Advanced Health and Safety Management

Introduction:

Health and Safety has to be managed with the same degree of expertise and to the same standards as other core business activities because of:

- The high cost of failures
- Legislation requiring employers to assess and manage risks
- Public opinion on risk acceptability moving against poorly managed organizations, which impose excessive risks
- High profile disasters, which fuel public opinion

The seminar will give a practical guide to Safety Management Systems and the management loop associated with it including; Policy, Organization, Planning, Measuring Performance and Auditing and Reviewing Performance. The course will also look at the different Safety Management Systems and greater detail into Risk Control Systems (including an introduction to HAZOP studies).

Program Objective:

Participants attending the Seminar will understand:

1- The necessity to manage health and safety with the same degree of expertise and to the same standards as other core business activities
2- The Legislation in Europe and the United States for High Hazard Industries
3- Safety Management Systems
4- The Management Loop
5- Policy for Health & Safety
6- Organization for health and safety
7- Planning and Implementation
8- Measuring Performance
9- Auditing and Reviewing Performance
10- Risk Control Systems
11- Inputs
12- Outputs
13- Processes

Who should attend:

This course is a practical guide for professionals involved in improving health and safety in their organization. It would benefit the following people:

1- Directors
2- Professionals
3- Safety Professionals
4- Employee Representatives

Developing an Effective Safety Culture

Introduction:

An effective safety culture is widely accepted as being the essential component of in the successful development and implementation of an organization's safety management system. Preventing major accidents is about ensuring that everyone, regardless of position, follows safety procedures and safe practices - by always intervening when unsafe behaviors or conditions are observed. A safety culture improvement process approach which actively engages everyone through personal responsibility is seen as the way forward.

In this course you will learn:

- The impact of an effective safety culture on achieving good safety management .
- How to establish a safety culture improvement processes and identify behavioral change improvement opportunities .
- Carry out a safety culture positional audit .
- How to implement a step-by-step safety culture improvement program .

Program Objective:

Participants attending the program will:

- Have a clear understanding of human factors and their application to their organization's current safety cultural status
- Be familiar with elements of safety management systems and their purpose
- Appreciate the consequences of behavioral acts and omissions as prime causes of accidents and emergency situations
- Be able to develop a step-by-step safety cultural improvement program within their own organization
- Develop an appreciation of carrying out an HSE cultural positional assessment
- Develop skills for identifying, evaluating and reconciling solutions for influencing behavioral change improvement measures

Who should attend:

- All supervisors and line management who have assigned responsibilities within the organization's safety management system (SMS)
- Production and process engineers; maintenance personnel; and HSE personnel
- All personnel involved in planning and implementing the organization's HSE management system

Environmental Impact Assessment

Introduction:

As concern grows for continually improving the quality of the environment, organizations of all types and sizes are increasingly turning their attention to the environmental impacts of their activities, products and services. The environmental performance of an organization is of importance to internal and external interested parties. Achieving sound environmental performance requires organizational commitment to a systematic approach and, to continual improvement of their environmental performance.

The purpose of this course is to provide delegates with the opportunity of gaining the skills and knowledge to learn how to conduct an Environmental Impact Assessment (EIA), thereby improving the organization's overall environmental performance.

Program Objective:

Delegates will learn how to:

- Plan and carry out an Environmental Impact Assessment (EIA) on processes and projects
- Understand the Key Elements of an Environmental Management System (EMS)
- Identify all the waste stream types and, the opportunities for recycling of waste

Who should attend:

- All line professionals, supervisors and those who are involved with environmental matters
- Production, maintenance and process engineers and all environmental personnel
- All personnel involved in purchasing and managing hazardous substances

Environmental Management Systems

Introduction:

As concern grows for continually improving the quality of the environment, organizations of all types and sizes are increasingly turning their attention to the environmental impacts of their activities, products and services. The environmental performance of an organization is of importance to internal and external interested parties. Achieving sound environmental performance requires organizational commitment to a systematic approach and, to continual improvement of an environmental management system (EMS).

The purpose of this course is to provide delegates with the opportunity of gaining the skills and knowledge to develop, implement and/or improve an Environmental Management System (EMS).

Program Objectives:

Delegates will learn how to:

- Understand the different types of environmental aspects and their environmental impacts
- Understand the requirements of the environmental management standard ISO 14001:2004
- Develop and implement an Environmental Management System (EMS)
- Prepare a plan for obtaining EMS ISO 14001:2004 certification from a certifying authority
- Identify all the waste stream types and, the opportunities for recycling of waste

Who should attend:

- All line professionals, supervisors and those who are involved with environmental matters
- Production, maintenance and process engineers and all environmental personnel
- All personnel involved in purchasing and managing hazardous substances

Hazardous Waste Management & Pollution Prevention

Introduction:

This five-day course will introduce delegates to the whole concept of managing hazardous wastes which will include their generation, storage, collection , processing , treatment, transportation and disposal. All waste related definitions will be provided and recycling and other methodologies of minimizing waste generation will be included in the course. It will also provide generic guidelines for operating a waste management system and a disposal site based on international experiences. The various pollution prevention strategies currently utilized by many industries together with some generic governmental legislation will also be included. The economic side of minimizing and/or preventing pollution by industry and the associated tangible rewards will be discussed together with the role that each person has to play in the big picture. Also included will be the role of the United Nations via the United Nations Environment Program (UNEP) and International Environment Related Treaties

Workshops will provide the basic requirements of ISO 14001 which is the specification for an Environmental Management System and its direct relationship to Pollution Prevention

Program Objectives:

- Learn how to recognize the importance of environmental values in decision making
- Learn how to avoid serious and irreversible damage to the environment
- Learn some of the current common pollution prevention techniques being used by industry today
- Encourage dialogue with like-minded individuals on specific issues of concern in their organizations and the opportunity to develop regional networks to address common issues
- Encourage the “buy green” concept or the use of more environmentally friendly products
- Assist the participants in obtaining a better appreciation of Agenda 21 (The Rio De Janeiro Conference on the Environment) and its inter-relationship amongst all the countries of the world
- Show and emphasize the close relationship between human health & safety and the environment
- Methodologies for the cleanup of contaminated land and the various parameters involved
- The basic requirements of ISO 14001 and its relationship to ISO 9001
- That each participant will know how to obtain environmental performance improvement through the implementation of ISO 14001

Who should attend:

- Health & Safety and Environmental Professionals
- Staff responsible for managing hazardous wastes
- Laboratory Technicians
- Staff wishing to reduce risk and liability arising from polluting events
- Technical assistants and anyone who has a role to play in environmental matters of the Organization

International Occupational Safety & Health standard (OSHA)

Introduction:

This program has been developed for multinational organizations in all sectors working in accordance with international standards or directives but adapting to local needs. This Course will provides an excellent basic grounding in the essentials of health and safety.

You will learn about effective policies, organizing your business, investigating loss, risk assessment and risk management. It's a practical program, which illustrates common sense approaches to managing this vital function within a business. Find out how to deal with machinery safety, hazardous chemicals, noise, electricity, fire and radiation, and put effective safety management at your fingertips.

Program Objectives:

- Identify and assess typical hazards in the workplace
- Recommend remedial action to control workplace hazards
- Investigate accidents and recommend preventative measures
- Explain human and organizational influences on health and safety
- Describe potential ill-health effects arising from work environments
- Devise control strategies for substances hazardous to health

Who should attend:

The course aimed at professionals, who have local responsibilities for health and safety and require an internationally recognized measure of competence in this field.

Lifting & Rigging Equipment: *Inspection, Testing*

Introduction:

This course is designed for those individuals who are required to inspect, test or supervise those inspecting, testing or lifting & rigging equipment.

Program Objectives:

- Selecting and inspecting the appropriate lifting tackle for a particular task
- Terminal Fittings
- Assembly of Chain Slings
- Inspection & maintenance procedures for all types of lifting & rigging equipment
- Examples of certificates & inspection sheets
- Thorough examination procedures

Who should attend:

- Engineers
- Supervisors
- Foremen
- Riggers.

Mechanical Integrity, Safety & Reliability in Refineries, Petrochemical & Process Plants

Introduction:

This course will provide a comprehensive review of the various aspects of engineered safety and mechanical integrity in refineries, oil & gas plants and petrochemical plants.

Principal emphasis is placed on the primary means of achieving plant integrity, which is the prevention of pressure equipment and piping failures, particularly, any which could cause significant consequences.

This course builds on a focused and practical coverage of engineering materials properties and selection and provides structured procedures and applicable calculation formulae and methods for the mechanical design of process piping systems and pressure equipment.

The course underscores the importance of interactions and cooperation between the three key functions of engineering, operation and maintenance in achieving the optimum mechanical reliability level in the plant. It enforces this key issue with practical examples of significant failures resulting from lack of understanding of the roles, responsibilities and interfaces between these functions.

Program Objectives:

The key objectives of this course are as follows:

- To assist participants in clearly understanding and applying the various aspects of engineered safety to ensure mechanical integrity in a responsible and cost-effective manner.
- To enhance the knowledge and skills of the participants in hazard identification and analysis; and in risk assessment and management.
- To provide participants with practical and effective methods and tools to perform practical likelihood and consequence analyses.

Who should attend:

This course is particularly valuable for refinery and petrochemical plant technical professionals, engineers, inspectors, maintenance personnel, as well as for project and consulting engineers and engineering and technical personnel involved in plant mechanical integrity and reliability.

Safety Engineering & Risk Management

Introduction:

As technological systems become more complex it becomes increasingly difficult to identify safety hazards and to control their impact.

Plant Managers and Engineers are becoming more aware that safety and risk touch on every aspect of the day to day running of their Plants and engineering and process systems if they are to comply with ever changing and demanding International, and National environmental and economic values and standards.

Unsafe systems can result in monies being lost due to accidents, disruption to production, criminal and civil prosecutions, loss of market share, and the degradation of company assets and the environment

This course is intended to introduce to the delegate the practical ways in which safety engineering and risk assessment systems, methods and techniques can play a significant role in eliminating , mitigating and controlling high hazard situations and conditions.

Using well established principles defined by International and professional bodies such as IchemE (Institute of Chemical Engineers),developed and formulated over many years and further established from learning from major accidents, the course will provide the delegate with a working knowledge of the proactive and reactive processes by which quantifiable assessments can be used to assess ,identify and control hazards.

Program Objectives:

The course is aimed at introducing through lectures and syndicate exercises an awareness and understanding of the factors, which must be taken into consideration prior to introducing new technologies, processes , equipment, and systems, Enabling the delegate to be aware of the potential effect on the safety of persons and the environment

Introduce an understanding of the importance of hazard and risk analysis, and the methods and techniques which are available

Who should attend:

The course is ideal for Plant Professionals, Engineers, Designers and any person whom to any extent has a contribution to make in ensuring the safe operation of a potential high hazard workplace.