

H S E

HEALTH

SAFETY

ENVIRONMENT



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Safety Engineering and Hazard Control

Duration: 5 Days



Introduction:

Hazards exist in everywhere, but how do we know which ones have the most potential to harm people? By identifying hazards, we will be better prepared to control or eliminate them and prevent accidents, injuries, property damage and downtime. After all, we can't fix problems we don't know about. This course helps participants to learn effective and

proven methods of hazard identification, assessment, and control by covering essential topics such as hazard mapping, workplace inspections, risk assessment techniques, and the hierarchy of controls.

Methodology

This interactive Training will be highly interactive, with opportunities to advance your opinions and ideas and will include;

- Lectures
- Workshop & Work Presentation
- Case Studies and Practical Exercise
- Videos and General Discussions

Certificate

BTS attendance certificate will be issued to all attendees completing minimum of 80% of the total course duration.

Who should attend?

- Managers
- Supervisors
- Health and safety committee members
- Maintenance and facilities staff

Objectives

- Understanding the fundamentals of hazard control
- Learning how to develop a comprehensive approach for hazard identification
- Being able to assess the hazards, and determine which ones should be eliminated or controlled first
- Identifying the types of hazard controls that are commonly used in various situations
- Learning how to implement a hazard control program
- Understanding how to assess the effectiveness of the control measures

• Course Outline:

DAY 1

- Importance of process safety management
- Case study
- Model for process safety management
- Process safety framework

- Major accidents/accident causes
- Mitigation and emergency measures
- Process safety strategies

DAY 2

- Introduction to hazards and risks
- Fire, explosion and toxic release
- Case study
- Risk assessment
- Reaction hazards and material compatibility

DAY 3

- Process design
- Case study
- Procedures
- Safe systems of work
- Control of contractors
- Maintenance
- Management of change

DAY 4

- Human factors and safety culture
- Safety management and continuous improvement
- Safety leadership at all levels in the organization
- Leading and lagging indicators
- Learning from accidents and incidents
- Legal framework
- Mitigation and emergency measures
- Start of multi-stage case study

DAY 5

- Multi-stage case study
- Course summary
- Individual action plans
- Assessment