

## **ACCIDENT PREVENTION THROUGH MACHINERY / EQUIPMENT SAFETY**

### **INTRODUCTION**

In this course, we will discuss the management, practice, and philosophy of construction safety; and we'll talk about ways of communicating safe rules and practices to your workers and staff.

You'll learn how vital job site safety is to a working environment that benefits both workers and management, and how it can actually enhance the value of your company. Although it is impossible to cover everything you'll need to know, I hope you will come out of this class with an understanding of the common sense of construction safety, according to the law and to the inspectors who enforce it.

With that knowledge you will then be able to do the research and find the resources you need to build effective safety programs and accident prevention plans. Scaffolding is used to carry out work such as maintenance, operating stops or new building.

### **OBJECTIVES**

Successful completion of the program will enhance the awareness, skills and knowledge of participants and enable them to :-

- Conform to the impact on cost and legal action on them.
- Able to recognize the important of managing OSH issues properly
- Comprehend to work safely.
- Understand safety & health requirements as specified by the company.
- Creating a safe and healthy working environment.
- Complying and understanding the law pertaining to occupational safety and health
- Promoting safety awareness and a high profile of safety and health consciousness amongst all levels of employees.
- Achieving a zero rate of accidents, injuries and illnesses at a place of work

### **METHODOLOGY**

There will be group interaction, individual exercise, case studies, role play, lectures and video / films. The methodologies used will enable participants to relate and apply directly to their working environment.

### **LANGUAGE MEDIUM**

Medium of presentation is English and / or Malay. The training can be executed in a dual language option.

### **CERTIFICATION**

Certificate of attendance will be awarded to participants who are fully attending the training course.

## **COURSE OUTLINE**

### **Module1: INTRODUCTION TO OCCUPATIONAL SAFETY AND HEALTH (OSH)**

- Why we need OSH?
- What is Occupational Safety?
- What is Occupational Health?
- Benefits of OSH
- Personnel
- Legal compliance
- Economic

### **Module 2: OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) 1994**

- Common Law & Criminal Law
- Who are Employers & Employees
- Responsibilities of Employers
- Responsibilities of Suppliers, Designers, Manufacturers and Contractors
- Responsibilities of Employees
- Liabilities and penalties
- Who can be charged?
- Employers' duties under regulations pertaining to OSHA 94 :-
  - ❖ OSH Policy Regulation 94
  - ❖ CIMAH Regulation 95
  - ❖ OSH Committee Regulation 96
  - ❖ OSH Officer Regulation 97
  - ❖ Classification, Labeling and Packaging (CPL) of Hazardous Chemical Regulation 97
  - ❖ Prohibition on the Use of Hazardous Substance 1999
  - ❖ Use and Standard Exposure of Chemical Hazardous to Health Regulation (USECHH) 2000

### **Module 3 : OTHER RELATED LEGAL REQUIREMENTS PERTAINING TO OSH**

- Factory and Machineries Act
- Noise Regulation
- Safety, Health and Welfare Regulation
- Certificate of Fitness
- Managing contractors – Building Operation and Work of Engineering Regulation
- Pressurized Equipment – LPG Tank, Gas Cylinder etc
- LPG piping and Cylinder
- Safe Working in Confine Space

### **Module 4 : IMPLEMENTING OSH MANAGEMENT SYSTEM**

- POLICY
- ORGANIZING
  - ❖ Responsibility and Accountability
  - ❖ Competence and Training

- ❖ OSH Management System Documentation
- ❖ Developing Manual, SOP, Work Instruction, Record and Form
- ❖ Communication
- PLANNING & IMPLEMENTATION
  - ❖ Initial Review
  - ❖ System Planning, Development and Implementation
  - ❖ OSH Objectives
  - ❖ Hazard Prevention - HIRARC
  - ❖ Prevention and control measures
  - ❖ Management of Change
  - ❖ Emergency prevention, preparedness, and response
  - ❖ Procurement
  - ❖ Contracting
- EVALUATION
  - ❖ Performance monitoring and measurement
  - ❖ Investigation of worker-related injuries, ill health, disease and incidents and their impact on safety and health performance
  - ❖ Audit
  - ❖ Management Review
- ACTION FOR IMPROVEMENT
- Preventive and Corrective Action
- Continual Improvement

#### Module 5: HAZARD IDENTIFICATION, RISK ASSESSMENT AND CONTROL

- What is Hazard, risk and danger?
- Legislation and Laws pertaining Risk Assessment (HIRARC)
- What is Risk Assessment (RA)? Holistic Approaches currently implemented.
- Why, when and who can carry out RA?
- Process of RA or Risk Management
- Where Can You Get Harm From – The 4 M's!
- Hazard Classification
- Pre-Assessment – Information Gathering
- Pre-Assessment – Classifying Work Activities
- Methods of Identifying and Recognizing Hazards
- Factors in Determining Severity Of Harm
- What is the Likelihood or Probabilities?
- Factors in Determining Likelihood Of Harm
- Estimating the Risk – The Risk Assessment Matrix
- How to use Multi Entry Risk Assessment Form
- Ranking of Probability and Consequence
- Basic Principles Of Risk Management

- Four Steps To Implementing Risk Control
- Controlling the Hazards
  - ❖ Elimination
  - ❖ Substitution
  - ❖ Isolation
  - ❖ Engineering Control
  - ❖ Safe Work Practice
  - ❖ Personal Protective Equipment
- Job Safety Analysis / Safe Operating Procedures