

UTM DEGREE++ PROGRAM

AREA: SAFETY & HEALTH AT WORK

INTRODUCTION

The responsibility for a safe and healthful workplace does not merely lie in the hands of company management. According to OSHA 1994, all employees are equally responsible for ensuring the workplace is safe and should received adequate training to safely execute their duties. Each employee, especially a new comer, must be advised with basic lesson of safety and any hazards related to their specific task or activities.

The delivery has a balance of lectures, workshops & video presentation to assist participants to interpret the OSH requirements in practical situations, together with the questions & answer sessions.

OBJECTIVES

The main objective of this course is to give a better view and approach to the final year students against their roles and particular responsibilities at work, which are generally based on the appropriation stated in the OSHA 1994. Through this approach, they should be understood why safety and health are very important to company's businesses and it's a part of job description.

FACILITATORS

- **Mr. Kamarizan Kidam**

Kamarizan Kidam is an occupational safety and health practitioner and a competent person as Safety and Health Officer under OSHA 1994 before joint UTM since 2001. He has more than 5 years working experience as Safety Engineer in petrochemical processing facilities and expose to latest legislation and standard. He has experience in the development, management, implementation and administration on all matters related to occupational safety and health.

TITLE: PRACTICING OCCUPATIONAL SAFETY & HEALTH (OSH) AT WORK
DATE: 2005/2006 (4 TIMES)
DURATION: 2 DAYS

Day One

9.00 WELCOME

9.10 INTRODUCTION TO SAFETY AND HEALTH LEGISLATION

- An overview on regulatory body; acts; regulations and some current issues. Legal requirements; self-regulation, ALARP & as far as practicable concepts; rule and responsibility as employer, employee, visitor & contractors; penalties.

10.00 OSH-MS & LOSS PREVENTION FUNDAMENTAL

- Management system concepts; development of management systems; model of OSH management systems – key elements; practical application.
- Accident definition; Domino theory – loss causation theory; Accident ratio study; Loss from accident; Unsafe act & unsafe condition; Principle of accident prevention. Case Studies – open discussion

10.30 Morning Break

11.00 MINI TEST

11.15 RISK MANAGEMENT

Covers risk identification, risk assessment/analysis and risk control.

12.00 WORKSHOP

Group assignment and discussion on hazard identification, risk analysis and risk control.

12.45 Lunch

14.00 VEDIO PRESENTATION

14.45 JOB SAFETY ANALYSIS

Benefits; system design; principle of JSA.

15.30 Afternoon Break

16.00 JOB SAFETY ANALYSIS

Group activity on selected task.

17.00 End of day one

Day Two

9.00 VEDIO – Hand Safety / Machine Safety / PPE

9.30 WORKPLACE INSPECTION / SAFETY AND HEALTH AUDIT
Basic safety inspection; inspection checklist. Audit category & grading; methodology; data gathering; data analysis; result and recommendations

10.00 PRACTICAL SESSION
Workplace inspection.

10.30 Morning Break

11.00 DISCUSSION SESSION
Inspection findings

11.30 PERMIT TO WORK SYSTEM
Hazardous work, Hot work, Confined space entry

12.00 WORKSHOP
Group activity on selected work; presentation & open discussion

12.45 Lunch

14.00 EMERGENCY RESPONSE
Planning, Response & Recovery

14.45 WORKSHOP
Group activity on selected emergency situations; discussion

15.30 Afternoon Break

16.00 CAREER IN SSHE

16.30 DISCUSSION ON MINI TEST / Q&A SESSION

17.00 End of Course

TITLE: INTRODUCTION TO PROCESS SAFETY
DATE: 2006/2007 (2 TIMES)
DURATION: 2 DAYS

Day One

9.00 WELCOME

9.10 INTRODUCTION TO SAFETY AND HEALTH LEGISLATION

- An overview on regulatory body; acts; regulations and some current issues. Legal requirements; self-regulation, ALARP & as far as practicable concepts; rule and responsibility as employer, employee, visitor & contractors; penalties.

9.30 LOSS PREVENTION FUNDAMENTAL

- Accident definition; Domino theory – loss causation theory; Accident ratio study; Loss from accident; Unsafe act & unsafe condition; Principle of accident prevention. Case Studies – open discussion

10.15 MINI TEST

10.30 Morning Break

11.00 HAZARD IDENTIFICATION AND CONTROL

Covers main chemical processing equipments such as reactor, boiler, distillation column, dryer, solvent extraction, crystallization, mixer, conveyor, compressor, turbine, crane, machinery, hand tools, forklift etc

12.45 Lunch

14.00 FIRE AND EXPLOSION SAFETY

14.45 WORKPLACE INSPECTION / SAFETY AND HEALTH AUDIT

Basic safety inspection; inspection checklist. Audit category & grading; methodology; data gathering; data analysis; result and recommendations

15.30 Afternoon Break

16.00 PLANT VISIT TO CEPP

Conduct workplace inspection and plant familiarization exercise

17.00 End of day one

Day Two

9.00 DISCUSSION SESSION

Inspection findings and experience

9.30 PERMIT TO WORK SYSTEM

Hazardous work, Hot work, Confined space entry and Lock Out Tag Out & group activity

10.30 Morning Break

11.00 JOB SAFETY ANALYSIS

Benefits; system design; principle of JSA.

12.00 WORKSHOP

Group activity on selected work; open discussion & presentation

12.45 Lunch

14.00 VIDEO – Chemical Safety (Occupational Health)

14.30 EMERGENCY RESPONSE

Planning, Response & Recovery

15.30 Afternoon Break

16.00 WORKSHOP

Group activity on selected emergency situations; discussion

16.45 DISCUSSION ON MINI TEST / Q&A SESSION

17.00 End of Course

**TITLE: ACCIDENT PREVENTION: LESSONS FROM CHEMICAL PLANT
DISASTER**

**DATE: 2005/2006 (2 TIMES)
2006/2007 (3 TIMES)**

DURATION: 1 DAY

9.00 am	SAFETY AND HEALTH IN MALAYSIA An overview on regulatory body; acts; regulations and some current issues.
9.45 am	HAZARD AT WORKPLACE Hazard identification, risk assessment and risk control.
10.30 am	<i>Morning Break</i>
11.00 am	CAUSES OF ACCIDENT Type of causes; Domino theory (loss causation theory); Human error
12.30 pm	VIDEO
1.00 pm	Lunch / Solat
2.15 pm	LEARNING FROM ACCIDENTS Procedures/Human error; Static electricity; Chemical reactivity; System design
3.30 pm	<i>Afternoon Break</i>
3.45 pm	LOSS PREVENTION How to sustain accident-free operation in the workplace
4.45 pm	Q&A SESSION
5.00 pm	<i>End of Course</i>