OBJECTIVES
Hazard Identification, Risk Assessment and Risk Control (HIRARC) are key components of EHS Management. HIRARC enables systematic identification of potential harm or danger, assess its risk so that the appropriate controls can be put in place to mitigate the risk.

In the end of the training, participant will able:
- to identify EHS hazards
- to understand the concept of risk assessment
- to use qualitative methodology of risk assessment
- to identify practical control measures.

WHO SHOULD ATTEND
- EHS Professionals
- EHS Committee Members
- Employees involved in preparing HIRARC
- Line Managers / Supervisors
- OSHAS 18001 Coordinating Team Members
- Engineers

DURATION
Two (2) days

DELIVERY METHOD
Classroom / Interactive / Workshop

KEY COURSE CONTENTS

1.0 Overview of OSH Management System
- Hazard Identification
- Activity on Hazard Recognition
- Risk Assessment
- Activity on Risk Recognition

2.0 HIRARC – definitions and concepts
- Hazard
- Risk
- Hierarchy of Controls
- Risk Assessment
- Risk Management
- Purpose of HIRARC

3.0 HIRARC Process
- Classify work activities
- Hazard Identification
- Analyze and estimate risk (risk assessment)
  - Likelihood
  - Severity
- Risk control

4.0 Comparison with JSA
- What is JSA
  - The task
  - The hazard
  - The protection / prevention method
- JSA Format
- HIRARC Format

5.0 Hazard identification tools
- Hazard identification technique
- Steps and time frame in identifying and assessing the hazards

6.0 Types of hazards:
- Health Hazards
- Safety hazards
- Environmental Hazards

7.0 Analyze and Estimate Risk
- Likelihood consideration
- Severity consideration
- Risk Assessment
- Practice in conducting Risk Assessment

8.0 Risk Control
- Risk Evaluation
- Hierarchy of Control Measures
  - Engineering
  - Administrative
  - Personal Protective Equipment
- Monitoring controls
- Safe work procedure
- PPE

9.0 Practical Workshop
- Group activity – to develop a HIRARC for an activity
- Presentation of the HIRARC