



Asia Masters Center

Safety Technology & Risk Management



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Safety Technology & Risk Management

➔ Course Objective

- Apply the principles of hazard identification and assessment of risk to processes and machinery
- Understand reliability concept and use of failure tracing methods
- Demonstrate a practical understanding of a quantitative risk assessment technique and the data required for records
- Advise management on the most effective control methods based on the evaluation of risk
- Identify the general requirement for development of safe system of work
- Recognise relevant International Standards for Reliability and Machinery Safety

➔ Target Audience

- Plant Professionals
- Engineers
- Designers
- All Professionals who has a contribution to make in ensuring the safe operation of a potential high hazard workplace

Course Outline

➤ **DAY1: Hazard Identification**

- Introduction and course overview
- Why do we need safety engineering
- Examples of major disasters
- The safety system process
- Hazard identification
- Hazard control
- Criteria for risk tolerability
- Hazard Identification Techniques
- Design out hazards
- Safety standards codes, national and international
- Safety analysis in engineering
- Safety analysis in Chemical process
- Safety analysis in manufacturing

➤ **DAY2: Risk Assessment Techniques**

- Safety Management
- Safety in system life cycle
- Hazard identification check-list
- Process, workplace, work equipment risk assessment
- Task-based risk assessment
- Introduction to HAZOP



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➤ **DAY 3: Machinery and Work Equipment Safety**

- Machinery hazard identification
- Causes and methods for machinery accident prevention
- HAZOP examples
- Failure modes, human factors and software safety
- Conducting a failure mode and effective analysis
- Human factors safety analysis
- Performance and human error
- Human factors and safety analysis

➤ **DAY4: Reliability Technology**

- Types and causes of failures
- Methods of preventing failure
- Types of maintenance and inspection regimes
- Reliability of components and systems
- Design and reliability of control systems
- Design and reliability of protective systems
- The concept of 'HIPS'
- Safety Integrity Levels 'SIL' selection

➤ **DAY 5: Consequences Analysis**

- Mechanics of fire, explosion and toxic releases
- Dispersion modelling software
- Types of fire: flash, jet, cascading fires and BLEVE
- Types of explosion
- Quantification of risk
- Event Tree Analysis 'ETA'
- Course Summary
- Course Review

➤ **The Feature Of Asia Master Training And Development Center**

- we pick up the customer from the airport to the hotel.
- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

➔ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.



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Price (USD)

Communicate with the training department
to know the participation fees

➤ **There are offers and discounts for groups**

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