



## **ASSET RISK ASSESSMENT AND MANAGEMENT TRAINING**



MTBM Group Sdn. Bhd. (1600656-M)

Level 8, MCT Tower, Sky Park, One City, Jalan USJ 25/1, 47650 Subang Jaya, Selangor

**Course Title:** Asset Risk Assessment and Management Training

**Course Validity:** 2 Days

**Validity:** Not Applicable

**HRD Corp Scheme:** Claimable

## **INTRODUCTION**

This training provides participants with a structured understanding of Asset Risk Assessment and Management by focusing on how to identify, analyse, evaluate and treat risks that affect asset reliability, safety, cost efficiency and overall operational performance. The course integrates ISO 55000 and ISO 31000 principles to guide participants in applying risk-based methodologies, developing asset risk registers, assessing asset criticality, implementing mitigation strategies and monitoring residual risks throughout the asset lifecycle. Through practical examples and hands-on exercises, participants will gain the capability to enhance asset performance, improve maintenance planning, strengthen operational resilience and support informed decision-making within a comprehensive asset management framework.

## **OBJECTIVE(S):**

- Understand the concepts of asset risk assessment and risk management.
- Learn risk identification, analysis and evaluation methods for assets.
- Apply ISO 31000 principles and lifecycle thinking in asset risk processes.
- Develop risk registers, mitigation plans and monitoring strategies.
- Strengthen asset reliability, resilience and operational continuity.
- Enhance organisational capability in asset-related risk governance.

**TARGET GROUP(S):**

- Asset managers and planners
- Engineers and maintenance teams
- Facility management personnel
- Risk, safety and compliance officers
- Operations and reliability personnel
- ISO 55001 representatives

**ENTRY REQUIREMENT(S):**

- Able to read, write and communicate verbally in Malay/English

**TOPIC(S):**

1. Introduction to Asset Management and Risk Concepts
2. ISO 55000 and ISO 31000 Risk Management Framework
3. Asset Risk Identification and Categorisation
4. Qualitative and Quantitative Risk Analysis
5. Risk Evaluation, Prioritisation and Decision-Making
6. Risk Treatment, Mitigation and Control Strategies
7. Asset Risk Register Development and Documentation
8. Risk Monitoring, Review and Asset Lifecycle Improvement

**LIST OF REFERENCE BOOK(S):**

- ISO 55000: Asset Management Overview
- ISO 31000: Risk Management Guidelines
- Asset lifecycle and reliability engineering references

**LIST OF TEACHING AID(S):**

- LCD projector
- Computer
- Whiteboard with accessories
- Flip chart with accessories
- Risk assessment templates and asset risk register forms

**METHODOLOGY(S):**

- Lecture
- Group discussions
- Case studies
- Risk assessment workshop
- Practical exercises

## TRAINING SCHEDULE

### Day 1

Time	Activity / Topic
8:30 am – 9:00 am	Registration and Introduction
9:00 am – 10:15 am	Topic 1: Introduction to Asset Management and Risk Concepts
10:15 am – 10:30 am	<b>Morning Tea Break</b>
10:30 am – 12:30 pm	Topic 2: ISO 55000 and ISO 31000 Risk Management Framework
12:30 pm – 1:30 pm	<b>Lunch Break</b>
1:30 pm – 3:30 pm	Topic 3: Asset Risk Identification and Categorisation
3:30 pm – 3:45 pm	<b>Afternoon Tea Break</b>
3:45 pm – 5:00 pm	Topic 4: Qualitative and Quantitative Risk Analysis

## TRAINING SCHEDULE

### Day 2

Time	Activity / Topic
8:30 am – 9:00 am	Recap of Day 1
9:00 am – 10:15 am	Topic 5: Risk Evaluation, Prioritisation and Decision-Making
10:15 am – 10:30 am	<b>Morning Tea Break</b>
10:30 am – 12:30 pm	Topic 6: Risk Treatment, Mitigation and Control Strategies
12:30 pm – 1:30 pm	<b>Lunch Break</b>
1:30 pm – 3:30 pm	Topic 7: Asset Risk Register Development and Documentation
3:30 pm – 3:45 pm	<b>Afternoon Tea Break</b>
3:45 pm – 5:00 pm	Topic 8: Risk Monitoring, Review and Asset Lifecycle Improvement