



ENVIRONMENTAL RISK ASSESSMENT (ERA) 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: Environmental Risk Assessment (ERA) Training

Course Validity: 2 Days

Validity: Not Applicable

HRD Corp Scheme: Claimable

INTRODUCTION

This training provides participants with essential knowledge and practical skills to conduct Environmental Risk Assessment (ERA) in industrial, commercial and project environments. It covers environmental hazards, receptors, impact pathways, risk evaluation tools, legal requirements and control strategies. Participants will learn how to systematically identify environmental risks, assess their likelihood and severity, propose mitigation controls and document findings for compliance with ISO 14001, DOE expectations and organisational risk management frameworks.

OBJECTIVE(S):

- Understand the principles and purpose of Environmental Risk Assessment.
- Identify environmental hazards, receptors and potential impact pathways.
- Apply structured methodologies for evaluating risk likelihood and severity.
- Understand Malaysian legal requirements related to environmental risks.
- Develop effective mitigation measures and environmental controls.
- Integrate ERA into ISO 14001 environmental management systems.
- Strengthen organisational environmental decision-making and planning.
- Prepare ERA documentation and communicate risk outcomes effectively.

TARGET GROUP(S):

- Environmental Officers and Executives
- Safety, Health and Environmental Practitioners
- Facility Managers and Engineers
- Production and Operations Personnel
- Quality, Compliance and Risk Management Teams
- Project and Site Managers
- Anyone involved in environmental planning or hazard evaluation

ENTRY REQUIREMENT(S):

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

TOPIC(S):

1. Introduction to Environmental Risk Assessment
2. Legal Requirements and Environmental Obligations in Malaysia
3. Environmental Hazards, Receptors and Impact Pathways
4. Risk Matrices, Likelihood, Severity and Evaluation Criteria
5. Environmental Aspects, Impacts and Relationship with ERA
6. Tools and Methods for ERA (checklists, matrices, modelling and scenarios)
7. Developing Mitigation Measures and Environmental Controls
8. Integrating ERA into ISO 14001 and Operational Planning
9. Documentation, Reporting and Communication of ERA Findings
10. Case Studies, Practical Exercises and ERA Development Workshop

LIST OF REFERENCE BOOK(S):

- Environmental Quality Act 1974
- ISO 14001:2015 (Risk and Opportunities Requirements)
- DOE Environmental Guidelines
- Risk Assessment Manuals and Environmental Planning Guides
- Malaysian Environmental Law Reference Materials

LIST OF TEACHING AID(S):

- LCD projector
- ERA templates and risk matrix charts
- Environmental aspect and impact samples
- Case study worksheets
- Flip chart or whiteboard

METHODOLOGY(S):

- Interactive lecture
- Group discussion
- Case studies
- Practical exercises
- ERA workshop and scenario-based analysis

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 Environmental Risk Assessment
10:15 am – 10:30 am	Morning Tea Break
10:30 am – 12:30 pm	Topic 2–3: Legal Requirements and Hazard Identification
12:30 pm – 1:30 pm	Lunch Break
1:30 pm – 3:30 pm	Topic 4: Risk Matrices, Likelihood, Severity and Evaluation
3:30 pm – 3:45 pm	Afternoon Tea Break
3:45 pm – 5:00 pm	Topic 5: Aspects, Impacts and Relationship with ERA

TRAINING SCHEDULE

Day 2

Time	Activity / Topic
8:30 am – 9:00 am	Recap of Day 1
9:00 am – 10:15 am	Topic 6: Tools and Methods for ERA
10:15 am – 10:30 am	Morning Tea Break
10:30 am – 12:30 pm	Topic 7–8: Mitigation Measures and ISO 14001 Integration
12:30 pm – 1:30 pm	Lunch Break
1:30 pm – 3:30 pm	Topic 9: Documentation and Communication of ERA Findings
3:30 pm – 3:45 pm	Afternoon Tea Break
3:45 pm – 5:00 pm	Topic 10: ERA Case Studies and Practical Workshop