MTBM

BASELINE ENVIRONMENTAL MONITORING TRAINING

MTBM Group Sdn. Bhd. (1600656-M)

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Course Title: Baseline Environmental Monitoring Training

Course Validity: 2 Days

Validity: Not Applicable

HRD Corp Scheme: Claimable

INTRODUCTION

This training provides participants with essential knowledge and practical understanding of baseline environmental monitoring for air, water, noise, vibration and soil quality. It focuses on regulatory requirements, sampling techniques, equipment usage, data interpretation and reporting aligned with the Environmental Quality Act (EQA) 1974, Department of Environment (DOE) guidelines and ISO 14001 environmental monitoring principles. The programme equips participants to plan, conduct and evaluate baseline studies to support environmental impact assessments, compliance programmes and continuous environmental performance monitoring.

OBJECTIVE(S):

- Understand the purpose and scope of baseline environmental monitoring.
- Identify key environmental parameters for air, water, noise, vibration and soil.
- Apply DOE-approved sampling and monitoring methods.
- Operate monitoring equipment correctly and safely.
- Maintain sampling integrity, calibration and data quality.
- Interpret baseline data and compare with environmental standards.
- Prepare and document environmental monitoring reports.
- Strengthen environmental compliance and sustainability practices.

TARGET GROUP(S):

- Environmental Officers / Executives
- OSH Practitioners (SHO/SSS)
- Engineers, Technicians & Facility Personnel
- Sustainability & Compliance Teams
- Project Managers & EIA Consultants
- Laboratory & Water Treatment Personnel
- Anyone involved in environmental monitoring

ENTRY REQUIREMENT(S):

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

TOPIC(S):

1. Introduction to Baseline Environmental Monitoring
2. Regulatory Requirements: EQA 1974, DOE Guidelines & Standards
3. Baseline Air Quality Monitoring (PM, Gases, Meteorology)
4. Baseline Water Quality Monitoring (Physical, Chemical, Biological Parameters)
5. Noise & Vibration Monitoring Requirements
6. Soil & Sediment Sampling Fundamentals
7. Monitoring Instruments, Calibration & Quality Assurance
8. Sampling Procedures, Field Notes & Data Recording
9. Data Interpretation, Trend Analysis & Reporting
10. Case Studies, Practical Demonstrations & Monitoring Simulation

LIST OF REFERENCE BOOK(S):

- Environmental Quality Act 1974
- DOE Environmental Sampling & Monitoring Guidelines
- Malaysian Ambient Air Quality Standards
- National Water Quality Standards (NWQS)
- ISO 14001:2015 (Monitoring & Measurement Requirements)

LIST OF TEACHING AID(S):

- LCD projector
- Air, water, noise & vibration monitoring instruments*
- Sampling bottles, meters, field sheets
- Case study handouts
- Flip chart / whiteboard

METHODOLOGY(S):

- Interactive lecture
- Group discussion
- Case studies
- Demonstrations
- Practical sampling simulation

TRAINING SCHEDULE

Day 1

Time	Activity / Topic
8:30 am – 9:00 am	Registration & Introduction
9:00 am – 10:15 am	Topic 1: Introduction to Baseline Environmental Monitoring
10:15 am – 10:30 am	**Morning Tea Break**
10:30 am – 12:30 pm	Topic 2–3: Regulations & Baseline Air Quality Monitoring
12:30 pm – 1:30 pm	**Lunch Break**
1:30 pm – 3:30 pm	Topic 4: Baseline Water Quality Monitoring
3:30 pm – 3:45 pm	**Afternoon Tea Break**
3:45 pm – 5:00 pm	Topic 5: Noise & Vibration Monitoring Requirements

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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: Soil & Sediment Sampling Fundamentals
10:15 am – 10:30 am	**Morning Tea Break**
10:30 am – 12:30 pm	Topic 7–8: Instruments, Calibration & Data Validation
12:30 pm – 1:30 pm	**Lunch Break**
1:30 pm – 3:30 pm	Topic 9: Interpretation, Trend Analysis & Reporting
3:45 pm – 5:00 pm	**Afternoon Tea Break**
3:45 pm – 5:00 pm	Topic 10: Case Studies, Field Simulation & Final Review