



INTRODUCTION TO CALIBRATION & MEASUREMENT 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: Introduction to Calibration & Measurement Training

Course Validity: 1 Day

Validity: Not Applicable

HRD Corp Scheme: Claimable

INTRODUCTION

This training provides participants with a clear and practical introduction to calibration and measurement concepts used in laboratories and industrial environments. It covers fundamental metrology principles, traceability, measurement accuracy, calibration requirements, and the importance of maintaining reliable measurement systems. Participants learn how to interpret calibration results, understand calibration certificates, and apply proper handling and verification practices for measuring equipment.

OBJECTIVE(S):

- Understand the fundamentals of measurement and calibration.
- Learn key metrology concepts including accuracy, precision, resolution, and traceability.
- Recognize the importance of calibration in quality systems and laboratory operations.
- Understand basic calibration processes and equipment verification requirements.
- Interpret calibration certificates and measurement results correctly.

TARGET GROUP(S):

- Laboratory Technicians & Analysts
- Production/Engineering Personnel
- QA/QC Personnel
- Individuals responsible for equipment use or measurement activities
- Anyone new to calibration processes

ENTRY REQUIREMENT(S):

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

TOPIC(S):

1. Introduction to Measurement & Calibration
2. Metrology Principles (Accuracy, Precision, Resolution)
3. Traceability & Reference Standards
4. Types of Measuring Equipment
5. Basic Calibration Concepts & Processes
6. Interpreting Calibration Certificates
7. Handling, Care & Verification of Measuring Tools

LIST OF REFERENCE BOOK(S):

- ISO/IEC 17025:2017 Standard
- VIM (International Vocabulary of Metrology)
- Basic Metrology & Calibration Guide

LIST OF TEACHING AID(S):

- LCD projector
- Computer
- Whiteboard with accessories

METHODOLOGY(S):

- Lecture
- Group discussions
- Basic demonstrations

TRAINING SCHEDULE

Day 1

Time	Activity / Topic
8:30 am – 9:00 am	Registration & Introduction
9:00 am – 9:45 am	Topic 1: Introduction to Measurement & Calibration
9:45 am – 10:30 am	Topic 2: Metrology Principles (Accuracy, Precision, Resolution)
10:30 am – 10:45 am	Morning Tea Break
10:45 am – 11:30 am	Topic 3: Traceability & Reference Standards
11:30 am – 12:30 pm	Topic 4: Types of Measuring Equipment
12:30 pm – 1:30 pm	Lunch Break
1:30 pm – 2:30 pm	Topic 5: Basic Calibration Concepts & Processes
2:30 pm – 3:30 pm	Topic 6: Interpreting Calibration Certificates
3:30 pm – 3:45 pm	Afternoon Tea Break
3:45 pm – 5:00 pm	Topic 7: Proper Handling & Verification of Measuring Tools