OUTSOURCING
TRAINING & CONSULTING
OTC Training Centre Sdn Bhd

14 hours ZOOM & PHYSICAL Program

HRD awards 2022
TRAINING PROVIDER

# Measurement and Calibration System

HYBRID TRAINING

20 & 21 May 2025 (Tue & Wed)

Remote Online Training (Zoom) &
Wyndham Grand Bangsar Kuala Lumpur Hotel(Physical)

** Choose either Zoom OR Physical Session

## INTRODUCTION

This course will help those who are using or calibrating measurement instruments, calibration coordinators, or for those responsible for maintaining quality, especially by persons responsible for the contracting of calibration services. A good measurement system is important to conform to any quality management systems. This course is intended to cover commonly used calibration terminology and practices in the industry.

## AIMS & OBJECTIVES

- Describe what is metrology, which science of measurement
- Explain the importance of measurement in our lives and international trade
- Understanding the factors that affect measurements
- Understand the commonly used terminologies in measurements and calibration

## WHO SHOULD ATTEND

√ Production
√ Quality
√ QA/QC
√ Executive
√ Engineers
√ Technicians

# COURSE CONTENT

**1. Introduction to Metrology : Science of Measurements**

a. What is Metrology?
b. Measurements in our lives & workplace.
c. The importance of good measurement.

**2. Development & Issues in Metrology**

a. The rise of the need of better measurements.
b. Differences between resolution, accuracy, precision.
c. What is measurement uncertainty?
d. Type A and Type B Uncertainty

**3. Standards & Standardization**

a. Differences in standard in lab against international standard.
b. The concept of traceability and respective requirements

**4. Managing Metrology System**

a. Part of Metrology System
b. Calibration interval and determination
c. Calibration record keeping
d. Calibration procedures
e. Personnel Training

**5. Making Good Measurements**

a. Measuring Instruments
b. Measuring Process
c. Measurement Assurance

**6. Unit and Measuring Instruments**

a. Basic SI units
b. Derivatives Units

**7. Other resources/sources of information**