



TECHNICAL TRAINING

CALIBRATION &
MEASUREMENT

BEST PARTNER FOR INNOVATION

COURSE OVERVIEW

Our Technical Training courses are specifically designed to cater for industries that need calibration and measurement specific technical trainings. All of these courses will be taught by our expert trainers who have more than 20 years of working experience in calibration and measurement.



BENEFITS OF ATTENDING

- Gain understanding on the importance of calibration and its relation to quality measurement.
- Gain understanding on factors that contribute to measurement uncertainty and its application during expressing measurement results.
- Enhance knowledge on related calibration procedures and standards.



WHO SHOULD ATTEND



- Calibration & measurement laboratory personnel.
- Engineer / executive involved in calibration & measurement.
- Individuals responsible for in-house calibration.
- Personnel responsible for establishing and maintaining calibration programme to meet the requirement of quality and other standard-based management systems, such as ISO 9001, ISO/TS16949, and etc.
- Suppliers of measuring equipment.



COURSE 1: Calibration & Measurement Training

ABOUT THE COURSE

This course will focus on the principles and practical aspects of measurement and quality measurement system.

DURATION

2 Days

COURSE OUTLINE

1. History of measurements.
2. Introduction to measurement and metrology.
3. International vocabulary of basic and general terms in metrology.
4. Importance of calibration.
5. Traceability and calibration measurement procedures.
6. Introduction to measurement uncertainty

COURSE 2: Calibration of Specific Measuring Instrument

ABOUT THE COURSE

In this module, participants will be trained on calibration of specific measuring instrument, i.e. electrical / mechanical / temperature.

It provides useful frameworks and concepts while emphasising practical skills and knowledge that can be applied in their own laboratory.

DURATION

2 Days

COURSE OUTLINE

1. Basic knowledge of the instrument
2. How to calibrate the instrument
3. Preparing calibration data sheet
4. Equipment care and maintenance
5. Calculation of test limits

COURSE 3: Measurement Uncertainty Calculation

ABOUT THE COURSE

The course which is based on ISO Guide 98-3 - *Guide to the expression of uncertainty in measurement*, will focus on source of uncertainty, method for calculating measurement uncertainty and its application during expressing measurement results.

DURATION

2 Days

COURSE OUTLINE

1. Historical perspective of uncertainty of measurement estimation in the ISO Guide.
2. Nomenclature and definitions used in measurement and calibration.
3. Application of measurement uncertainty in the determination of acceptance criteria.
4. Source of uncertainty, random and systematic errors.
5. Type A evaluation of standard uncertainty.
6. Type B evaluation of standard uncertainty.
7. Combined standard uncertainty.
8. Expanded uncertainty and level of confidence.
9. Reporting of results.



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