Industrial Metrology & Measurement

Industrial Metrology Program for Quality Assurance – PM019



Program Description

This training equips participants with fundamental industrial metrology and measurement skills for manufacturing processes. Focuses on measurement accuracy, proper use of measuring instruments, measurement errors, and basic calibration to support product quality.

Training Structure

Fundamentals & Measurement
Industrial Metrology, Measurement Types, Measurement Methods

Measuring Instruments
Instrument Characteristics, Vernier Caliper, Micrometer, Dial Indicator

Accuracy & Calibration
Technical Drawing & Tolerances, Measurement Errors, Basic Calibration, Measurement Practice

Learning Objectives

- Understand basic industrial metrology concepts.
- Identify measuring instruments and their proper use.
- Understand measurement characteristics and terminology.
- Identify potential measurement errors.
- Apply basic measurement techniques accurately.
- Understand basic measuring instrument calibration.

Training Details & Outcomes

General Information

Duration	40 Learning Hours
Method	Theory Presentation, Demonstration, Practice
Requirements	Basic understanding of technical drawing and an interest in manufacturing.
Target	Production Operators, Vocational Students, Entry-Level Manufacturing Technicians, and Beginner Quality Control Inspectors.

Training Output

- Correctly use basic mechanical measuring instruments.
- Select appropriate measurement methods for production needs.
- Read measurement results accurately according to industry standards.
- Identify and reduce measurement errors.
- Understand the importance of calibration for product quality.
- Support quality control processes in manufacturing.

Program Advantages

- **Hands-on measurement practice.**
- **Based on industrial measurement standards.**
- **Develops accuracy and measurement discipline.**
- **Suitable for entry-level manufacturing personnel.**
- **Guided by experienced metrology and manufacturing practitioners.**

Training Certificate (Completion Certificate)
Competency Certificate (optional, through competency assessment according to participant needs)

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