Measurement System Analysis
1 Day Programme

Smallpeice Enterprises
business improvement training

Open enrolment classes

April 14th 2026
8.30am – 4.30pm BST

July 10th 2026
8.30am – 4.30pm BST

October 16th 2026
8.30am – 4.30pm BST

December 8th 2026
8.30am – 4.30pm GMT

Fees:

The cost per participant is £390+VAT, which includes comprehensive reference materials.

To book places:

- Please email Smallpeice via train@smallpeice.com with your requirements.
- Our experienced booking team will then send you a booking form.

In-Company Training:

This programme is available for cost effective 'in-company' group training. This provides the opportunity to customise the content and to include practical activities that are linked to your own processes and products. For more information on the options, please email train@smallpeice.com.

Overview

Manufacturers are becoming increasingly aware of the need to obtain adequate confidence in their measurement systems. This is important for process control, for the assurance of quality, and for process improvement. This highly practical course will enable delegates to assess the performance of new and existing measurement systems and considers how improvements can be introduced when they are found to be necessary.

Objectives

- Introduce the concepts of factual measurement
- Explore the types of data that MSA can be applied to
- Provide a user viewpoint of measuring equipment calibration
- Provide a practical user method qualification for taking measurements
- Demonstrate why measurement is important and what can be done to improve a measurement system

Training Format

Training will be delivered live via MS Teams, incorporating a mix of theory and interactive activities / discussions.

Training Content

Introduction to Measurement Systems Analysis

- What MSA is
- Why it is important
- Repeatability and reproducibility

Types of Data and Collection

- Common vs. special causes of error
- Value and feasibility of collecting data
- Exercise: barriers to data collection
- Types of data

Qualifying the Measurement System

- Using a gauge for measurement
- Interpreting the results
- Destructive measurement systems
- Conditions that need to be considered
- Actions for improvement
- Re-evaluating the measurement system
- MSA when a gauge cannot be used
- Case studies & examples

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