

# NPL Training Framework

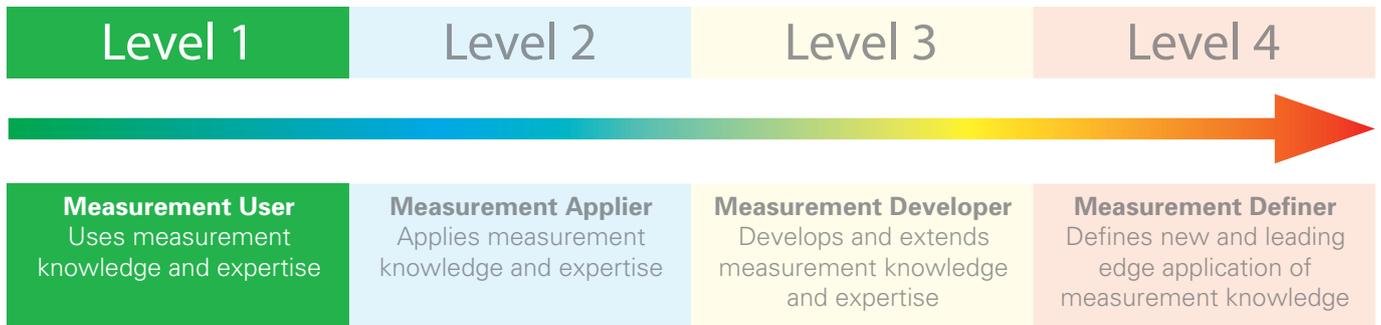
## Dimensional Measurement Training Level 1 – Measurement User

A three day training course introducing dimensional metrology and the importance of good practice and the right measurement behaviours.

"92% of organisations attending an NPL training course have seen improvements in their organisation."

*Databuild 2012*





## Who should attend?

- Apprentices
- Graduates
- Engineers
- Quality & Inspection Staff
- Designers
- Production Staff
- Anyone that is required to operate to good practice in measurement

## Learning outcomes

- Enable learners to understand the importance of using the correct measurement tools for varying applications.
- Instil a questioning culture amongst learners.
- Give delegates a sense of responsibility for the measurement process and its practical application.
- Give learners a hands-on experience of why measurement is critical to the entire manufacturing engineering process.
- Encourage learners to develop a measurement strategy in the work place.

## Employer return on investment

- Reduction in scrap and waste through improved measurement best practice.
- Decrease in re-work time through improved accuracy and throughput.
- Improved quality control procedures through firm understanding of the under-pinning importance of measurement.
- Reduction in technical support out-sourcing costs.
- Skilled, motivated and efficient manufacturing engineering employee base.

## Module details

### Geometrical Product Specification (GPS) A

Understanding technical drawing good practise, interpretation and geometrical tolerancing.

### Measurement Principles & Methods A

Use of rules, micrometers, callipers, surface table including the appropriate use of SI units.

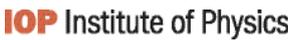
### Measurement Principles & Methods B

Correct use of height gauges, dial test indicators and dial gauges including the environmental effects on measurements.

## Training Delivery

NPL sets the standards for metrology in the UK. The primary objective of NPL's training courses is to encourage learners to make a difference within their workplaces. NPL training is supported by a technical committee of measurement equipment suppliers, trade associations, manufacturing organisations, trainers, educational establishments and National Skills Academies.

The NPL training framework is approved by EAL Ltd, (part of SEMTA) and validated by the National Skills Academy for Manufacturing (NSA-M). The training courses are delivered nationally and internationally by NPL accredited training providers.

Contact details	Further information
<p><b>National Physical Laboratory</b>            Hampton Road            Teddington            Middlesex            United Kingdom            TW11 0LW</p> <p>Switchboard: 020 8977 3222            Website: <a href="http://www.npl.co.uk">www.npl.co.uk</a></p>	<p>Please see <a href="http://www.npl.co.uk/training">www.npl.co.uk/training</a> for more information and a list of upcoming courses. Alternatively, please contact <a href="mailto:training@npl.co.uk">training@npl.co.uk</a></p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div>