

NPL Training – Dimensional measurement

Using precision measurement tools correctly could save your business money

NPL Training is the UK's only independent industry-recognised measurement training programme. It can help businesses:

- Reduce waste
- Enable better-informed decisions
- Remove the need for expensive technical support
- Reduce operational mistakes
- Provide hands on training
- Ensure post assessment availability
- Provide personal career development via the only nationally recognised qualification in metrology

“Rolls-Royce is proud to be part of a programme that will help to re-establish metrology as a critical element of our value chain process. The programme will enable the participants to make better manufacturing decisions and take a more consistent approach to problem solving and process capability improvements. It will also help to re-energise that questioning culture, so vital to achieving the very best from measurement tools and methods.”



Rolls-Royce

Dr Hamid Mughal

Director manufacturing engineering

Using measurement tools is not the same as using measurement as a tool.

Today's manufacturing industry has forgotten that measurement is a cornerstone of its past achievements; that good measurement supports the technical infrastructure which leads to new and improved products, processes and services.

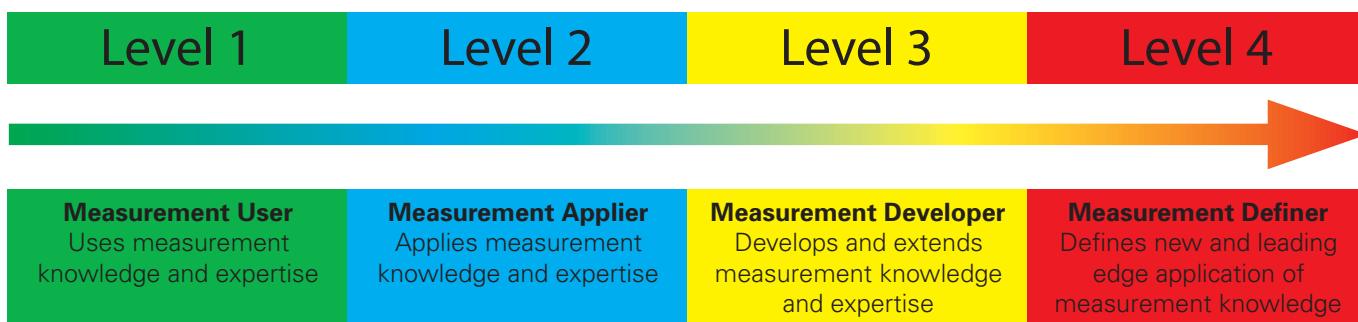
Workers today know less about the principles of measurement because advances in technology mean they don't have to. New equipment has become easier to use so users don't need the depth of measurement training they did twenty years ago. This can lead to poor decisions and mistakes with expensive consequences.

NPL Training helps companies

develop their workforce skills in measurement along with an understanding of its practical importance. It helps organisations draw the best from their employees, solve complex problems, develop new products and services and function more efficiently.

NPL Training currently offers two levels of qualification in dimensional measurement skills:

Training is divided into four levels covering 'Measurement Users' through to 'Measurement definers'



Level 1 detailed overview

Level 1 provides the underpinning knowledge and expertise for anyone using dimensional measurement tools or requires an appreciation of the importance of measurement. This level is relevant to all industrial sectors and can be stand-alone or completed as the building block for further levels. Level 1 is a four day course.

Following Level 1 candidates will have an understanding of principal dimensional measurement methods and techniques, and basic measurement equipment will be used correctly and with confidence.

Level 1 modules

All course modules are based on current British and international standards.

<p>Geometric Product Specification</p> <p>What are geometric product specification (GPS), drawing practices and tolerance?</p>	<p>Measurement Methods and Principles A</p> <p>Successful measurements and use of rules, micrometers and calipers, including the appropriate use of SI units.</p>	<p>Measurement Methods and Principles B</p> <p>Correct use of height gauges, dial test indicators, and dial gauges, as well as the environmental effects on measurements.</p>	<p>Fundamental Measurement Calculations</p> <p>Triangles, powers and scientific notation.</p>
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