

MEASUREMENTS: MEASURING TOOLS

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The Measurements: Measuring Tools course is an informative, entry-level overview on the various measurement tools commonly used during inspection with particular attention paid to hand-held devices. This course focuses on quantitative gauges, such as calipers and micrometers; qualitative gauges, such as go/no go thread rings or plugs; and standard or class-specific tools, such as levels, squares, and gauge blocks. Learners in the quality and manufacturing fields will find value in this course.

Credit Hours **3**

Learning Objectives

- Identify each measurement tool by name.
- Understand what type of measurement instrument each tool is.
- Comprehend the purpose of each measurement tool.

Table of Contents

I. Quantitative Gauges

- Scales
- Calipers
 - o Vernier Calipers
 - o Dial Calipers
 - o Digital Calipers
- Micrometers
 - o Outside Dimension Micrometers
 - o Inside Dimension Micrometers
 - o Depth Micrometers
- Protractors
- Height Gauges with Test Indicators
- Inside Diameter Bore Gauges

II. Qualitative Gauges

- Profile or Radius Gauges
- Thickness Gauges
- Go/No Go Thread Rings or Plugs
- Snap Gauges
- Adjustable Telescoping Gauges
- Spring Calipers

III. Standard or Class-Specific Tools

- Levels
- Squares
- Surface Plates
- Gauge Blocks
- Surface Finish Comparators

