

MeasurED TRAINING CURRICULUM

+ **Course 101:** *Dimensional Measurement with Precision Measuring Equipment*

Introductory-level learning experience provides a comprehensive overview of dimensional measurement in an industrial manufacturing setting; and provides hands-on experience with precision measurement equipment.

+ **FORMAT**

- Two-day classroom course

+ **PREREQUISITES**

- None. Class is designed for individuals new to the manufacturing environment who need to use and care for basic precision measuring equipment, or for those seeking to expand their skills.

+ **LEARNING OUTCOMES**

- Introductory understanding of industrial measurement.
- Extensive hands-on practice of instrument operation by measuring actual parts. Equipment covered includes gage blocks, steel rules, calipers, micrometers, depth micrometers, dial indicators and height gages.
- Demonstrated understanding of equipment principles, measuring techniques and best practices for the use of dimensional measuring equipment.
- Experience using a host of measuring instruments (including metric) that address the specific needs of the individual student.

+ **Course 101:** *Dimensional Measurement with Precision Measuring Equipment*

+ **Course 111:** *Introduction to Dimensional Gage Calibration*

+ **Course 114:**
Gage Calibration

+ **Course 215:** *Dimensional Measurement with CMMs, Vision, and Form Instruments*

Dimensional metrology: *the science and practice of dimensional measurement—is one of the fundamental educational series offered through Master Gage & Tool Co.'s MeasurED training program. The full curriculum consists of a series of independent classroom courses that cover all aspects of dimensional measurement and inspection.*

+ **Customized.**

Students can choose which courses are most relevant and create their own unique educational experience; class work focuses on students' individual needs.

+ **Comprehensive.**

Modern dimensional metrology curriculum covers dimensional measuring equipment and strategies for implementation, including selection, application, calibration and care of dimensional measuring systems.

+ **Engaging.**

Principles and practice are taught using a hands-on experiential learning approach that engages the students and promotes retention of concepts.

Many students may wish to take all four courses in sequence; we try to provide a schedule that makes that possible.

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