## **Metrology/QC Training Course**

Measurement is a cornerstone of all technical career paths and major part of quality assurance. Metrology 1 course is made up of concepts that include precision measurement, statistical process control, geometric dimensioning and tolerancing, and gauging. Students will learn via computer software, videos, written text and hands-on laboratory activities using industrial-quality lab hardware and tooling.

*Timeline for Completion:* Minimum number of hours to complete is 36 hours. This course contains approximately 32 hours of eLearning (online) and 4 hours of instructor-led classroom and hands on.

**Completion Goal:** Upon successful completion of this course, the student will be able to perform the following skills:

- Convert basic measurement tasks
- Identify shafts and measure w/dial indicator
- Identify and measure specs from a print
- Determine the MMC and LMC limits for diameters
- Understanding of Interference/Sliding fit types and calculate clearance and allowance
- Find and calculate location tolerances
- Determine orientation tolerances from a print
- Able to measure Full Indicator Movement (FIM)
- Calculations necessary to identify straightness, circularity & cylindricity of shaft or disk
- Find form tolerances by evaluating measurement data to determine if a shaft meets specs given





## Training Cost \$800

## COURSE OVERVIEW

Basic Measurement Precision measurement Tools Dimensional Gauging Into to Print Reading Print Dimensioning Assembly Drawings and Fasteners Intro to Geometric Dimensioning/Tolerancing Location Tolerances Orientation Tolerances Form Tolerances



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